

FIG. 1

EXAMPLE 1 (PARALLEL DIRECTION)

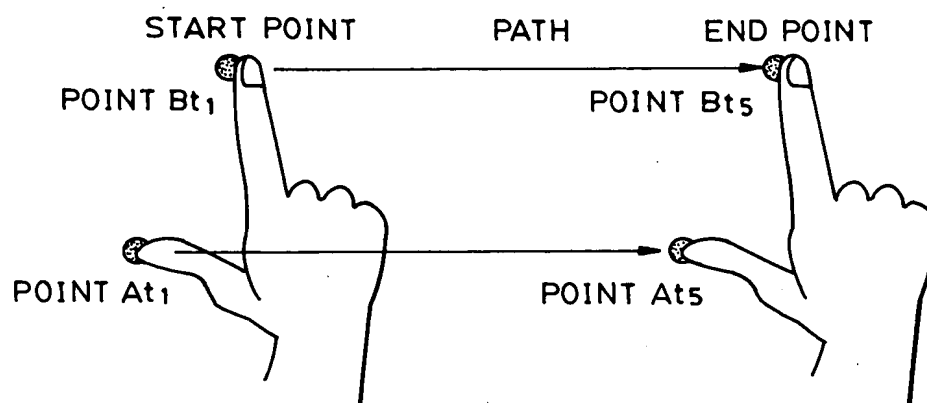


FIG. 2A

EXAMPLE 2 (INWARD DIRECTION)

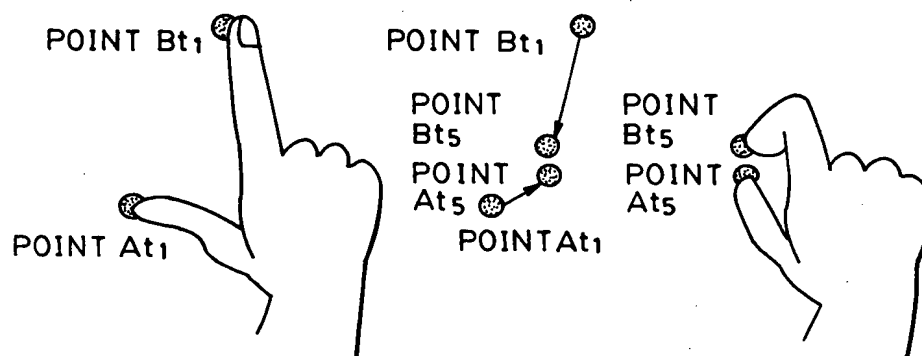


FIG. 2B

EXAMPLE 3 (OUTWARD DIRECTION)

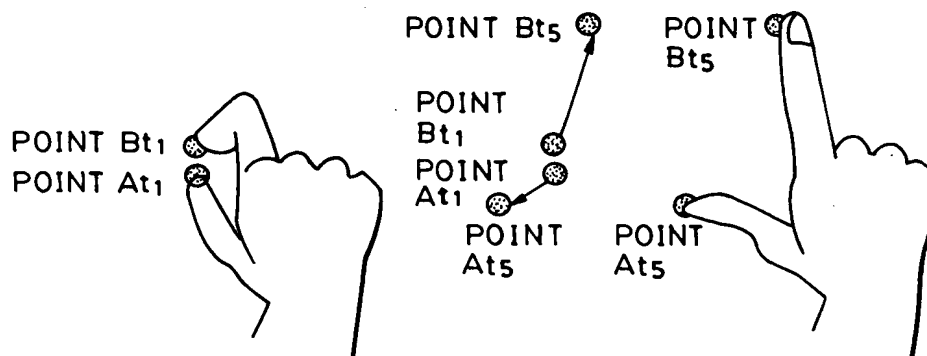


FIG. 2C

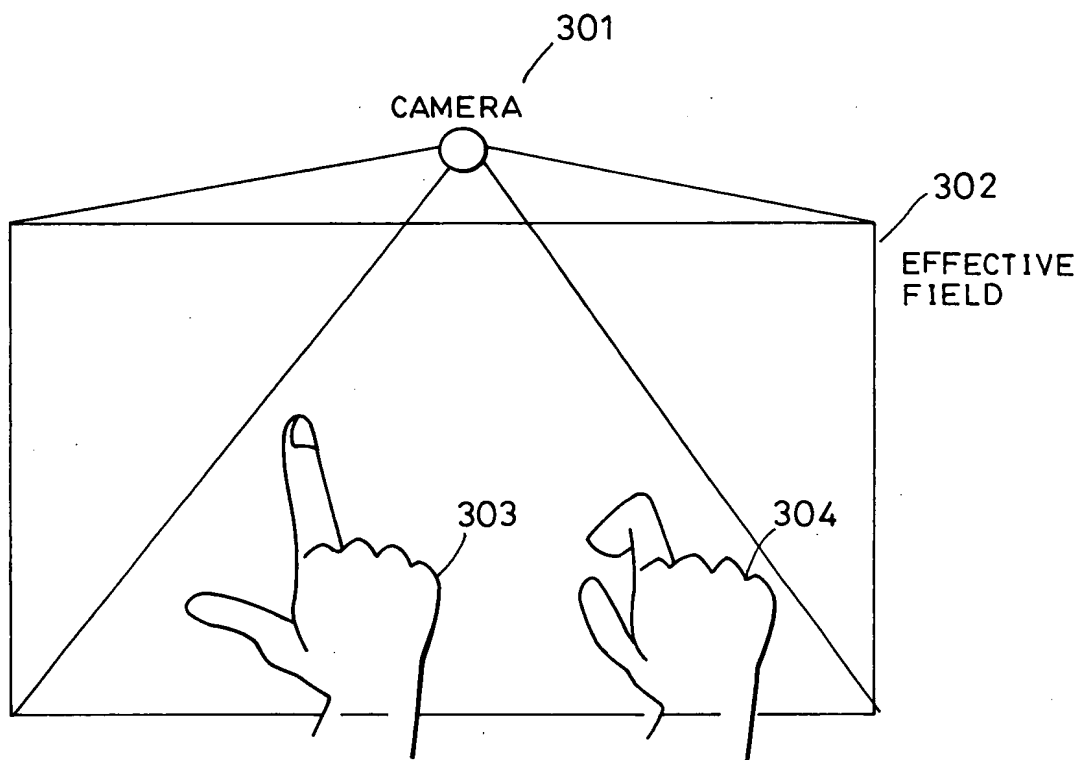


FIG. 3

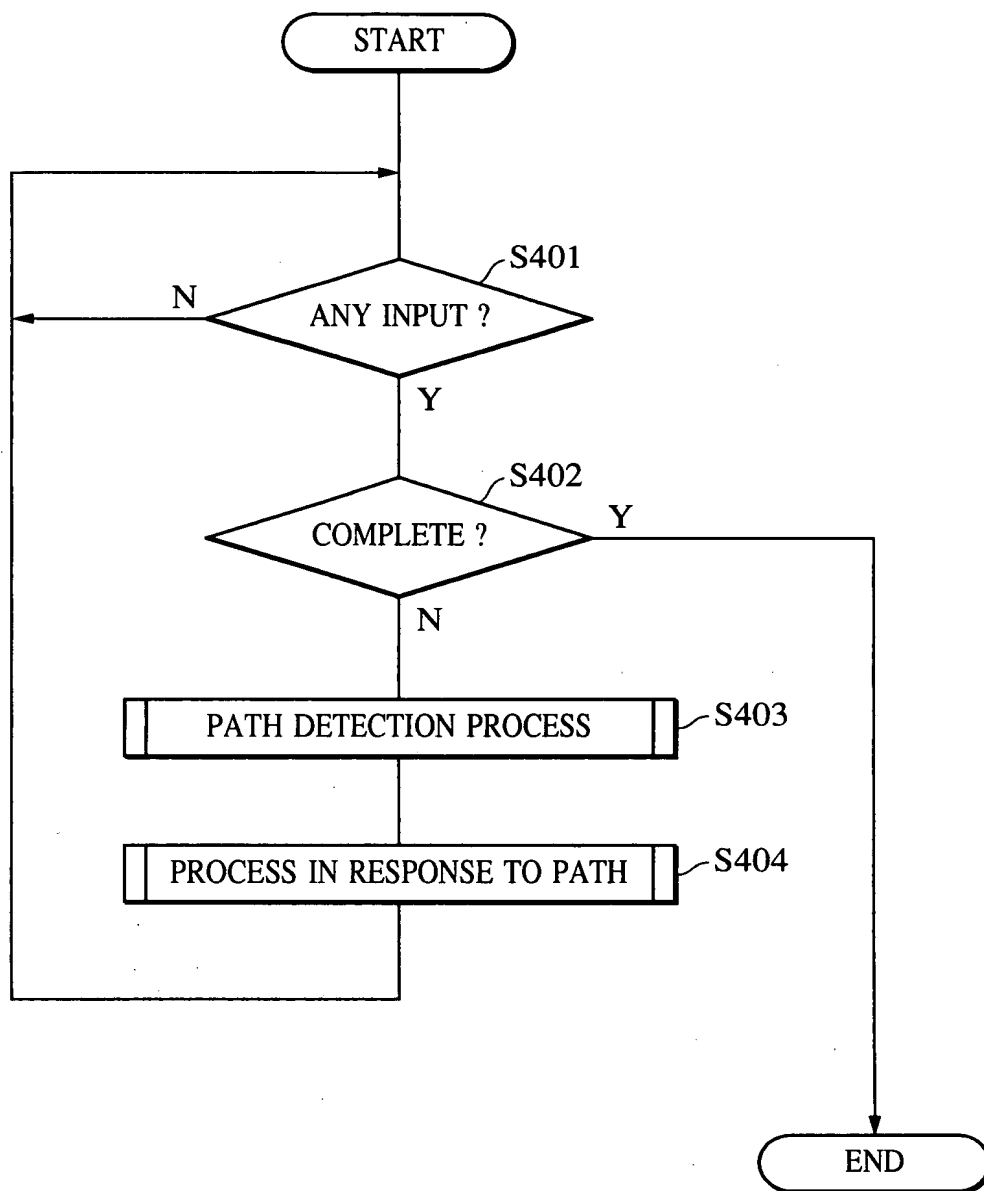


FIG. 4

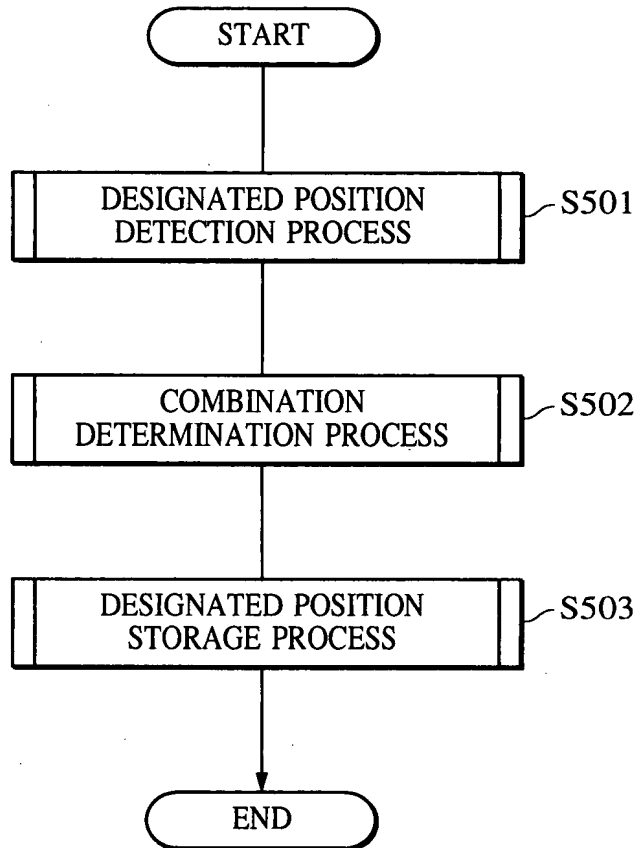


FIG. 5

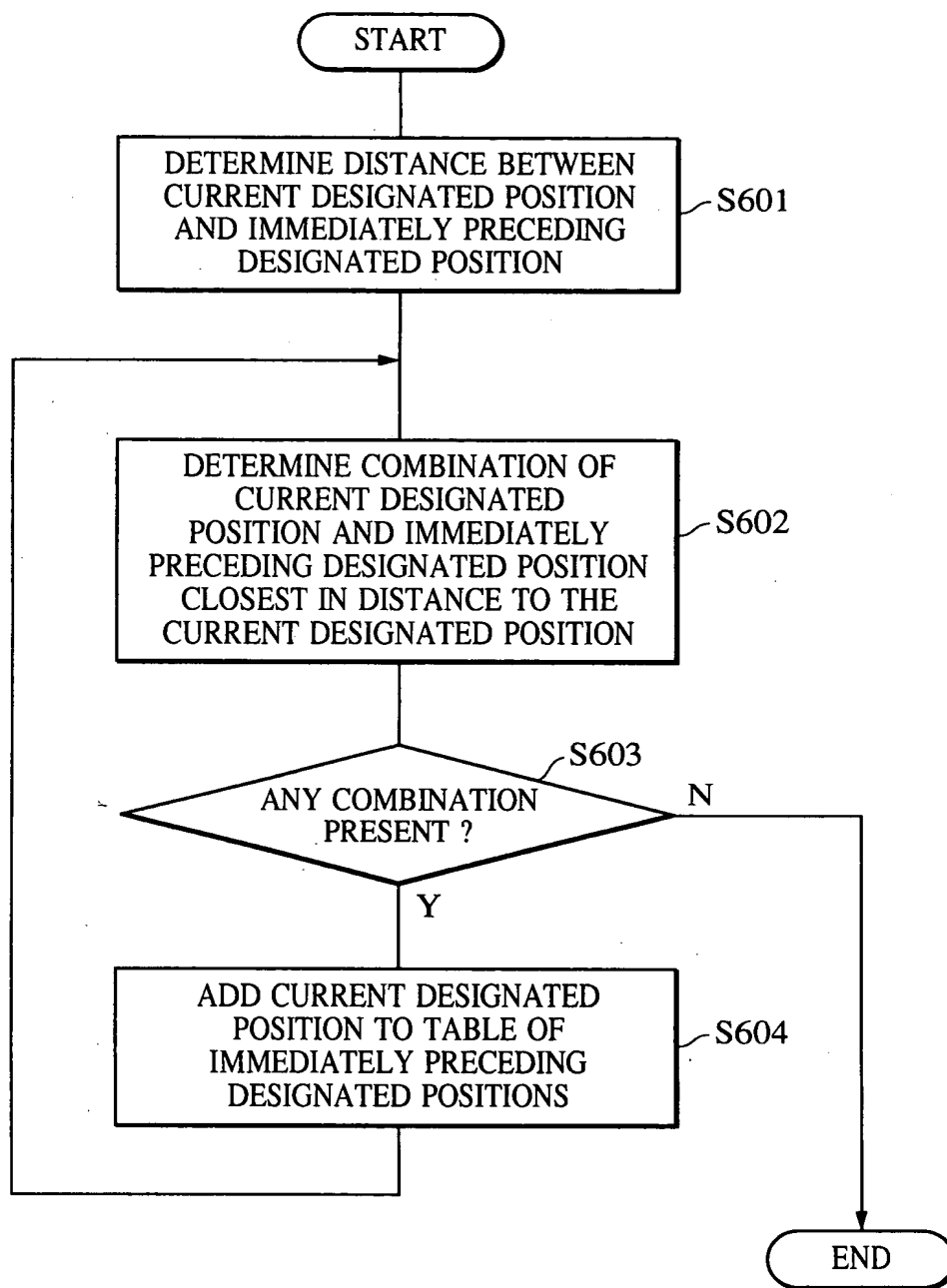


FIG. 6

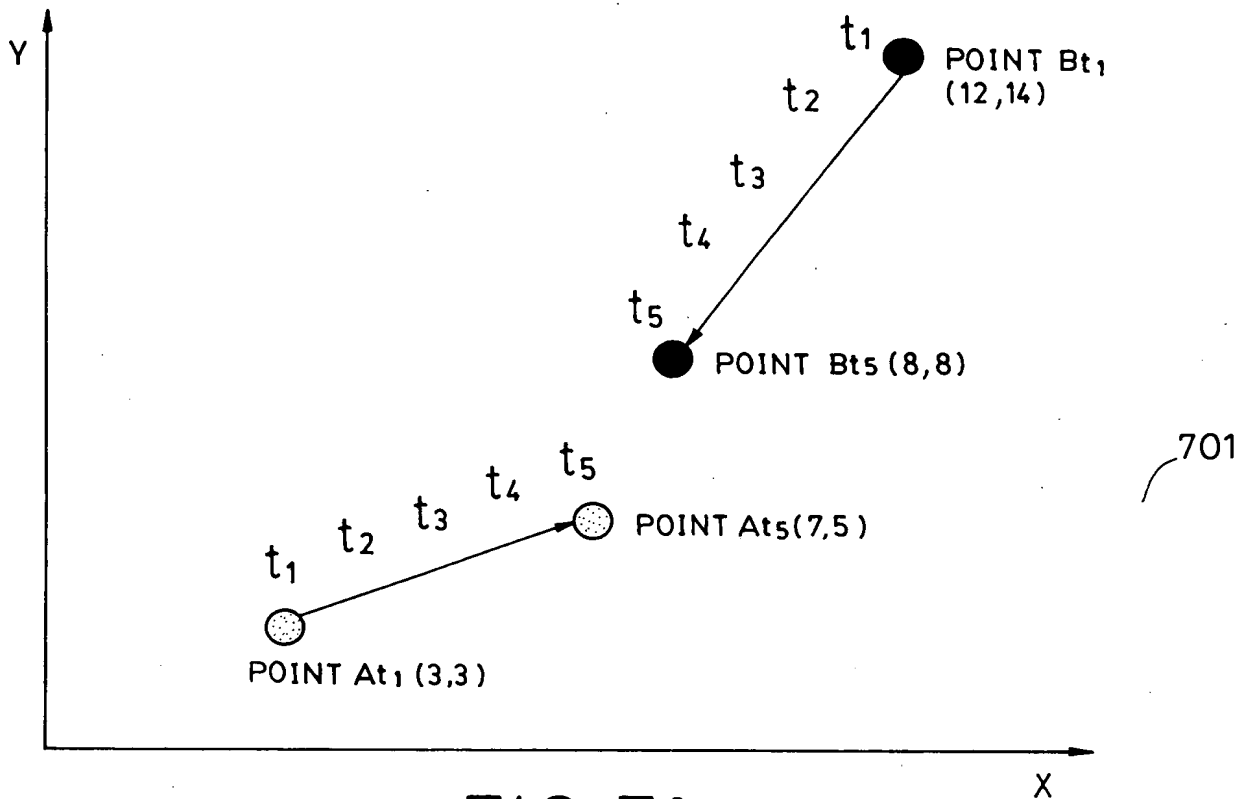


FIG. 7A

TABLE STORING POSITION DATA

POSITION COORDINATE  
DATA AT POINT A

	X	Y
t <sub>1</sub>	3	3
t <sub>2</sub>	4	3.5
t <sub>3</sub>	5	4
t <sub>4</sub>	6	4.5
t <sub>5</sub>	7	5

702

POSITION COORDINATE  
DATA AT POINT B

	X	Y
t <sub>1</sub>	12	14
t <sub>2</sub>	11	12.5
t <sub>3</sub>	10	11
t <sub>4</sub>	9	10
t <sub>5</sub>	8	9

703

FIG. 7B

FIG. 7C

FIG. 8A

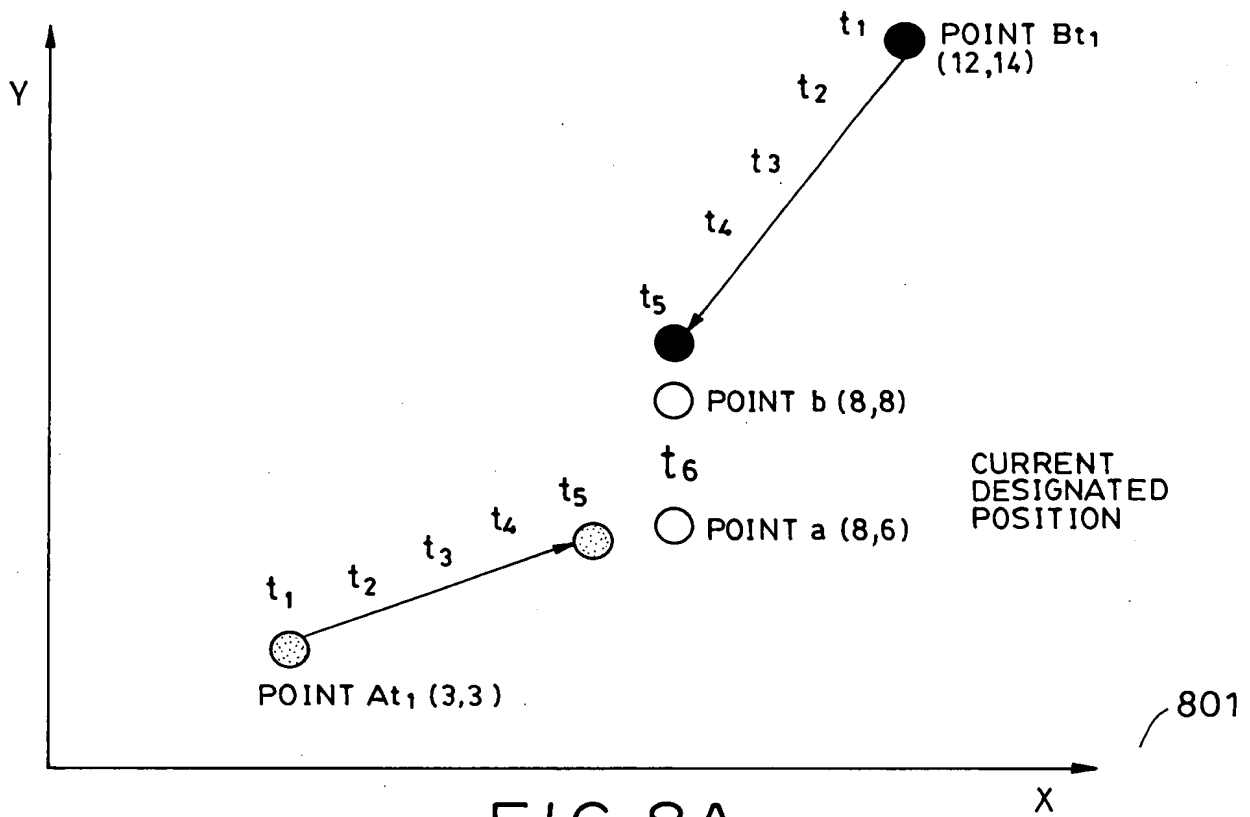


FIG. 8A

CURRENT DESIGNATED  
POSITION DATA (AT t<sub>6</sub>)

	X	Y
a	8	6
b	8	8

802

FIG. 8B



CURRENT DESIGNATED  
POSITION DATA

	X	Y
a	8	6
b	8	8

901

FIG. 9A



DISTANCE TO IMMEDIATELY PRECEDING DESIGNATED POSITION

902

	X	Y	DISTANCE TO DESIGNATED POSITION A	DISTANCE TO DESIGNATED POSITION B
a	8	6	1.414	4.123
b	8	8	3.601	1.000

FIG. 9B



DESIGNATED POSITION DATA  
AT EACH TIME POINT

903

	X	Y
t <sub>1</sub>	3	3
t <sub>2</sub>	4	3.5
t <sub>3</sub>	5	4
t <sub>4</sub>	6	4.5
t <sub>5</sub>	7	5
t <sub>6</sub>	8	6

FIG. 9C

904

	X	Y
t <sub>1</sub>	12	14
t <sub>2</sub>	11	12.5
t <sub>3</sub>	10	11
t <sub>4</sub>	9	10
t <sub>5</sub>	8	9
t <sub>6</sub>	8	8

FIG. 9D

FIG. 10

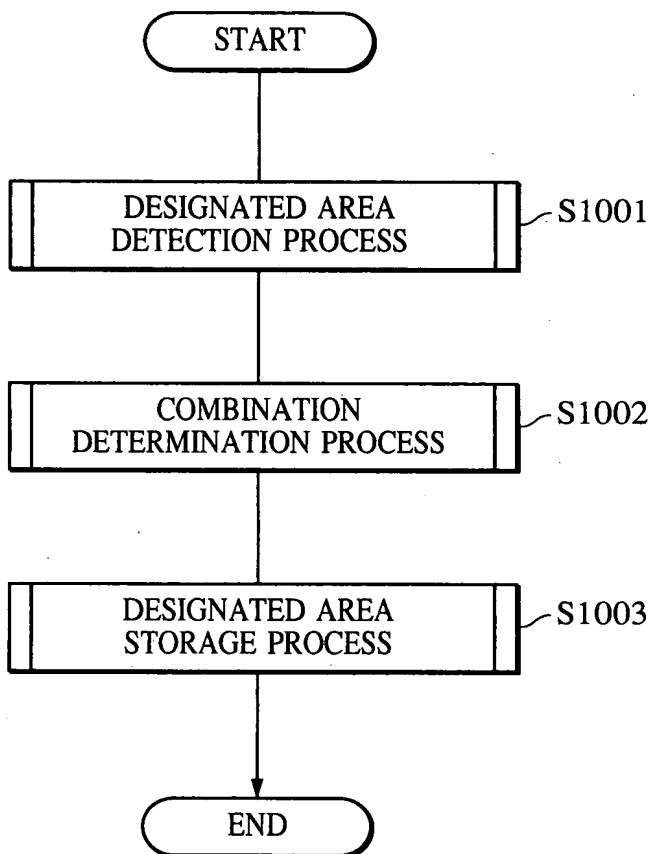


FIG. 10

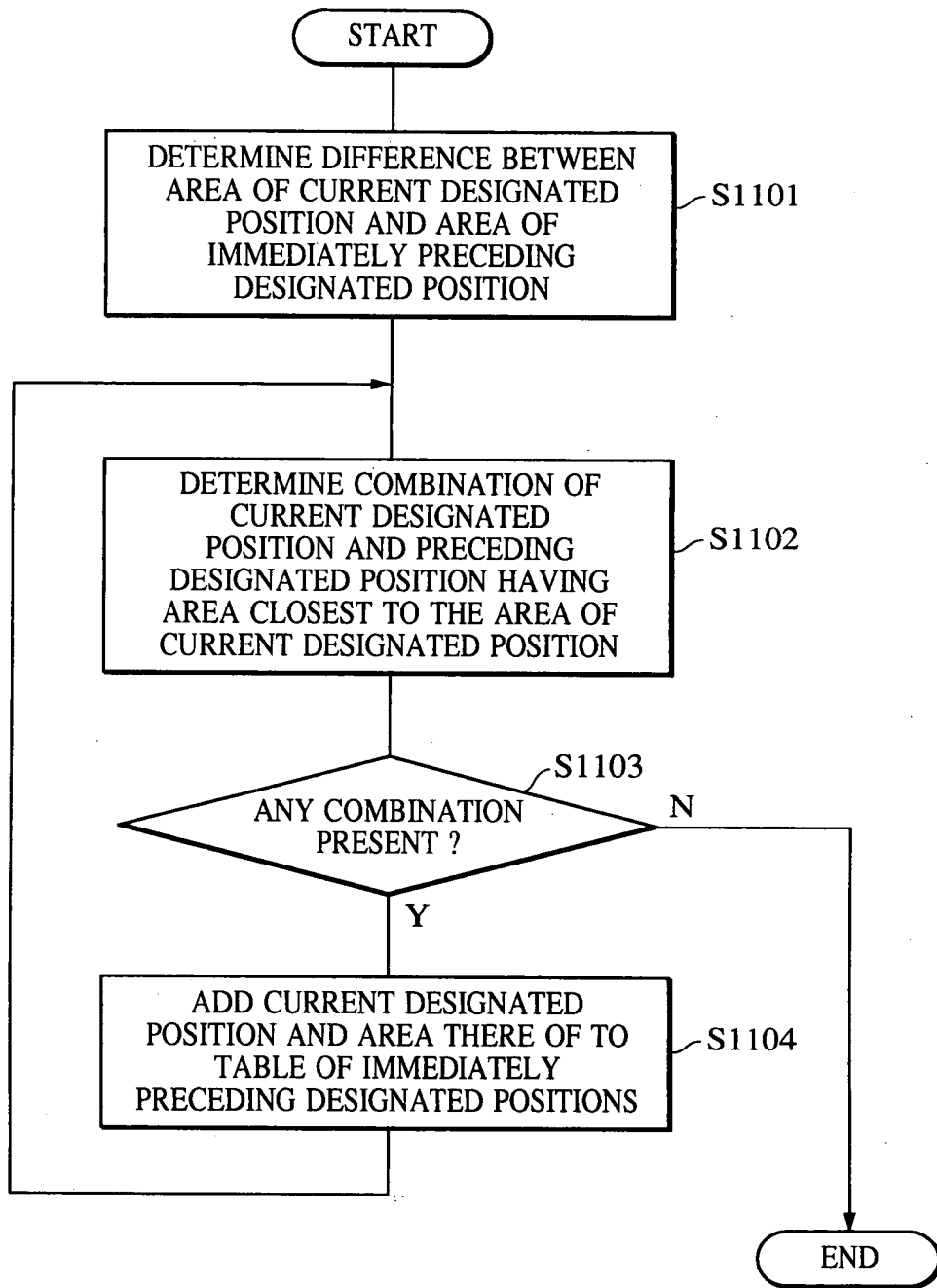


FIG. 11

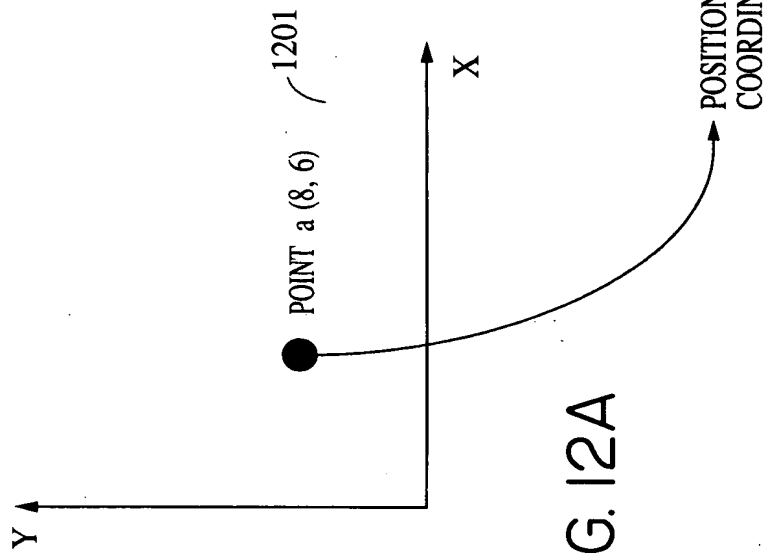


FIG. 12A

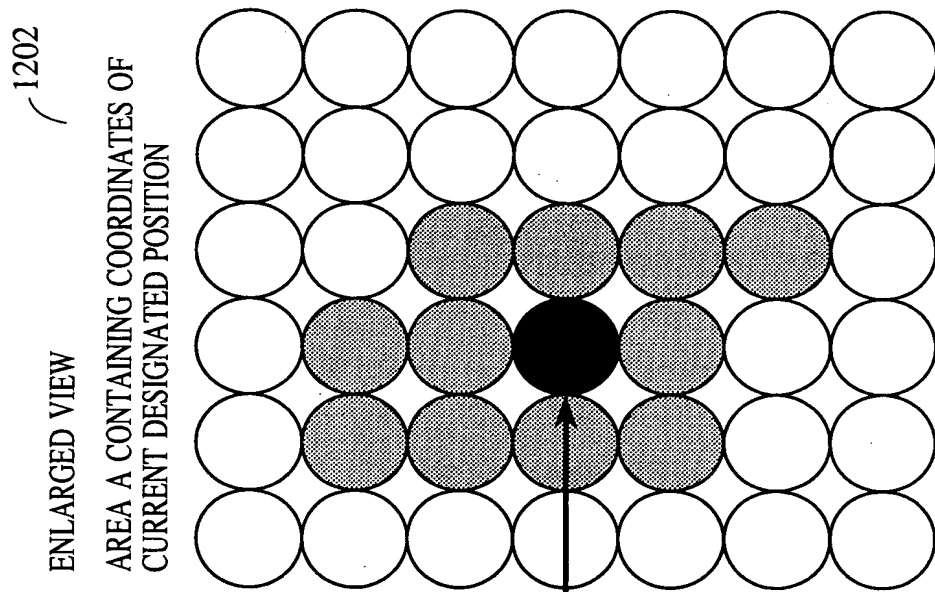


FIG. 12B

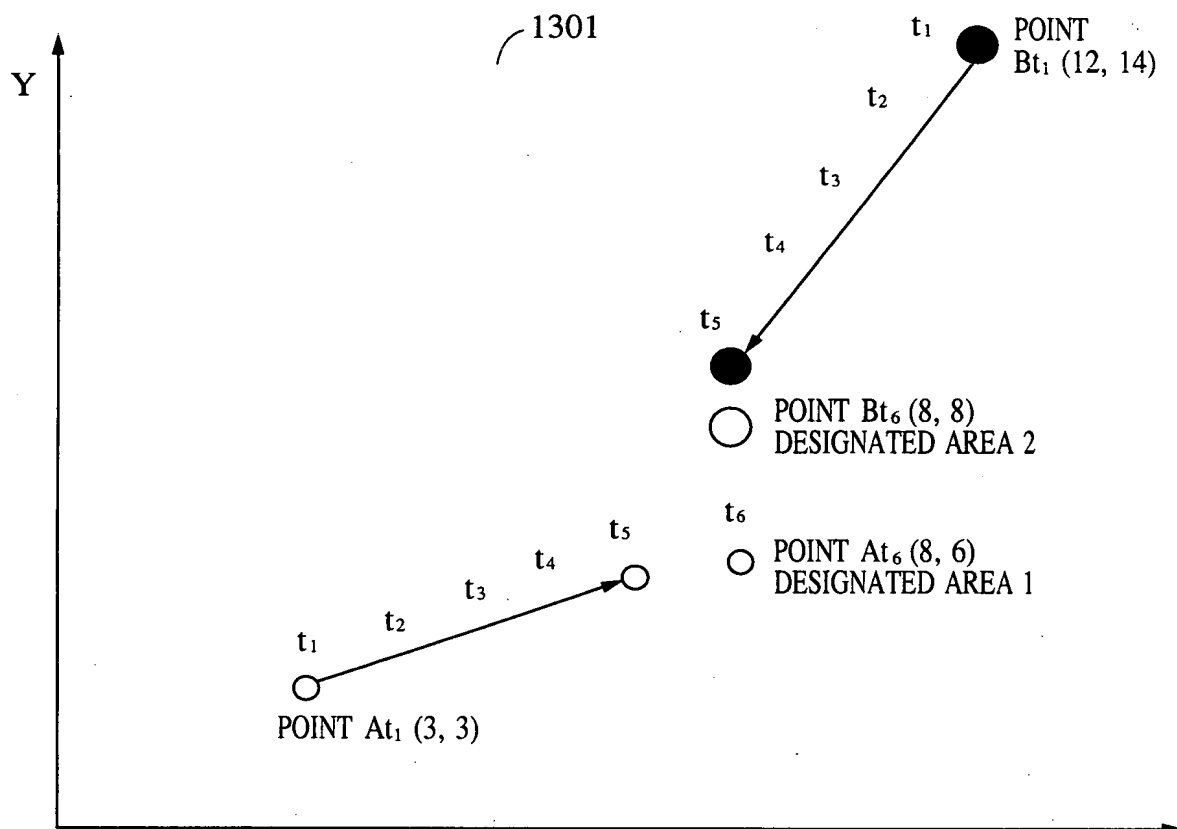


FIG. 13A

TABLES STORING DESIGNATED AREA DATA

AREA DATA AT POINT A

	X	Y	AREA
t <sub>1</sub>	3	3	12.5
t <sub>2</sub>	4	3.5	12.2
t <sub>3</sub>	5	4	12.5
t <sub>4</sub>	6	4.5	12.0
t <sub>5</sub>	7	5	11.0

FIG. 13B

AREA DATA AT POINT B

	X	Y	AREA
t <sub>1</sub>	12	14	19.5
t <sub>2</sub>	11	12.5	19.5
t <sub>3</sub>	10	11	20.0
t <sub>4</sub>	9	10	20.0
t <sub>5</sub>	8	9	20.0

FIG. 13C

CURRENT DESIGNATED AREA DATA (AT t<sub>6</sub>)

	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

FIG. 13D

CURRENT AREA DATA (AT  $t_6$ )

	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

1401

FIG. 14A



DIFFERENCE BETWEEN CURRENT AND IMMEDIATELY PRECEDING DESIGNATED AREAS

	X	Y	AREA	DIFFERENCE FROM DESIGNATED AREA A	DIFFERENCE FROM DESIGNATED AREA B
a	8	6	11.5	0.5	9.0
b	8	8	20.0	9.0	0.5

1402

FIG. 14B



TABLES STORING DESIGNATED AREA DATA

	X	Y	AREA
$t_1$	3	3	12.5
$t_2$	4	3.5	12.2
$t_3$	5	4	12.5
$t_4$	6	4.5	12.0
$t_5$	7	5	11.0
$t_6$	8	6	11.5

1403

FIG. 14C

	X	Y	AREA
$t_1$	12	14	19.5
$t_2$	11	12.5	19.5
$t_3$	10	11	20.0
$t_4$	9	10	20.0
$t_5$	8	9	20.0
$t_6$	8	8	20.5

1404

FIG. 14D

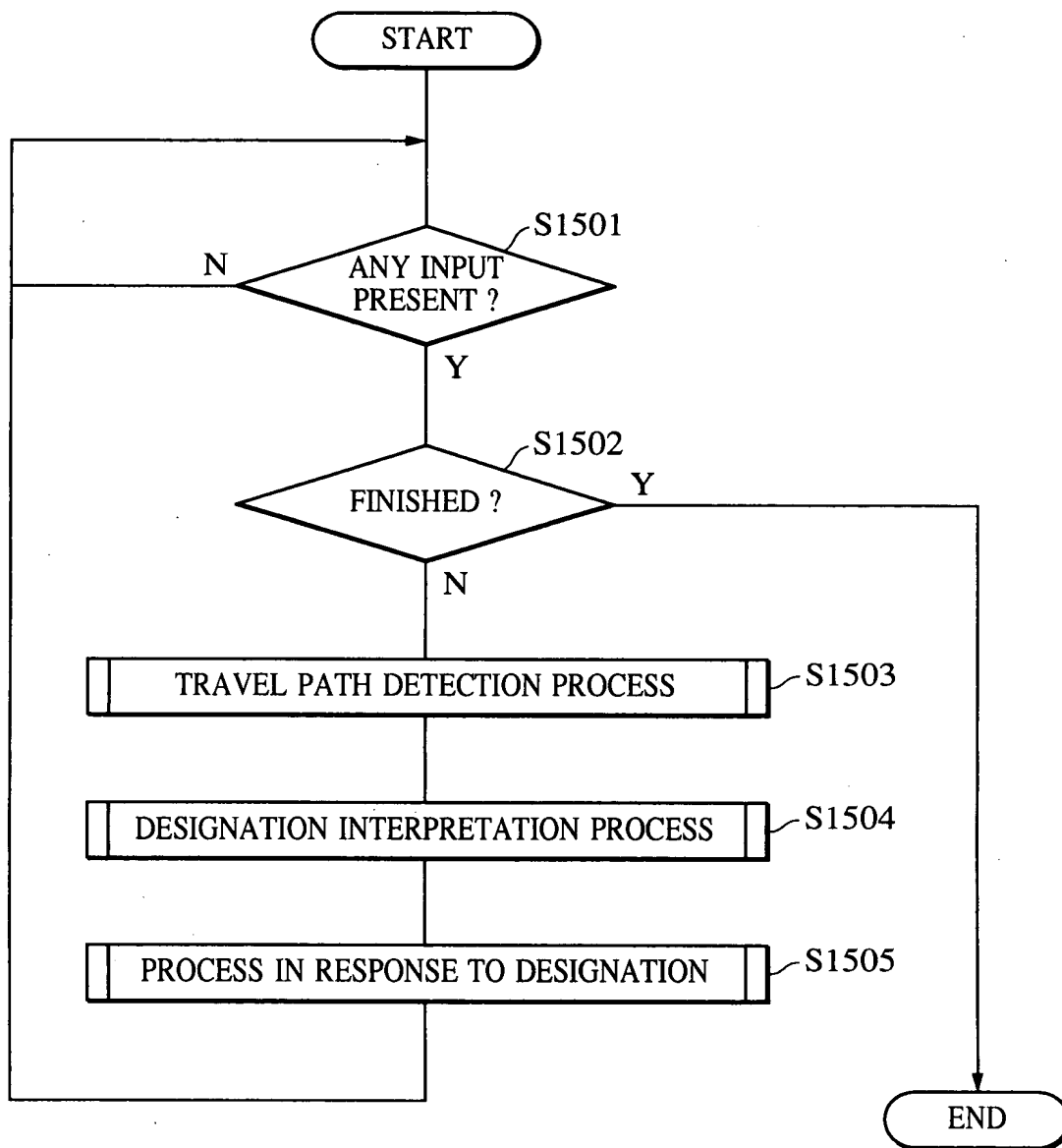


FIG. 15

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graph TD; START([START]) --> S1601[DESIGNATED POSITION-TO-POSITION DISTANCE MEASUREMENT PROCESS]; S1601 --> S1602[PROCESS OF DETERMINING CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE]; S1602 --> S1603[PROCESS OF INTERPRETING DESIGNATION BASED ON DISTANCE CHANGE]; S1603 --> END([END]);
```

The flowchart illustrates the designated position-to-position distance measurement process. It begins with a START terminal, followed by three sequential process blocks: S1601 (DESIGNATED POSITION-TO-POSITION DISTANCE MEASUREMENT PROCESS), S1602 (PROCESS OF DETERMINING CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE), and S1603 (PROCESS OF INTERPRETING DESIGNATION BASED ON DISTANCE CHANGE). The process concludes at an END terminal.

FIG. 16



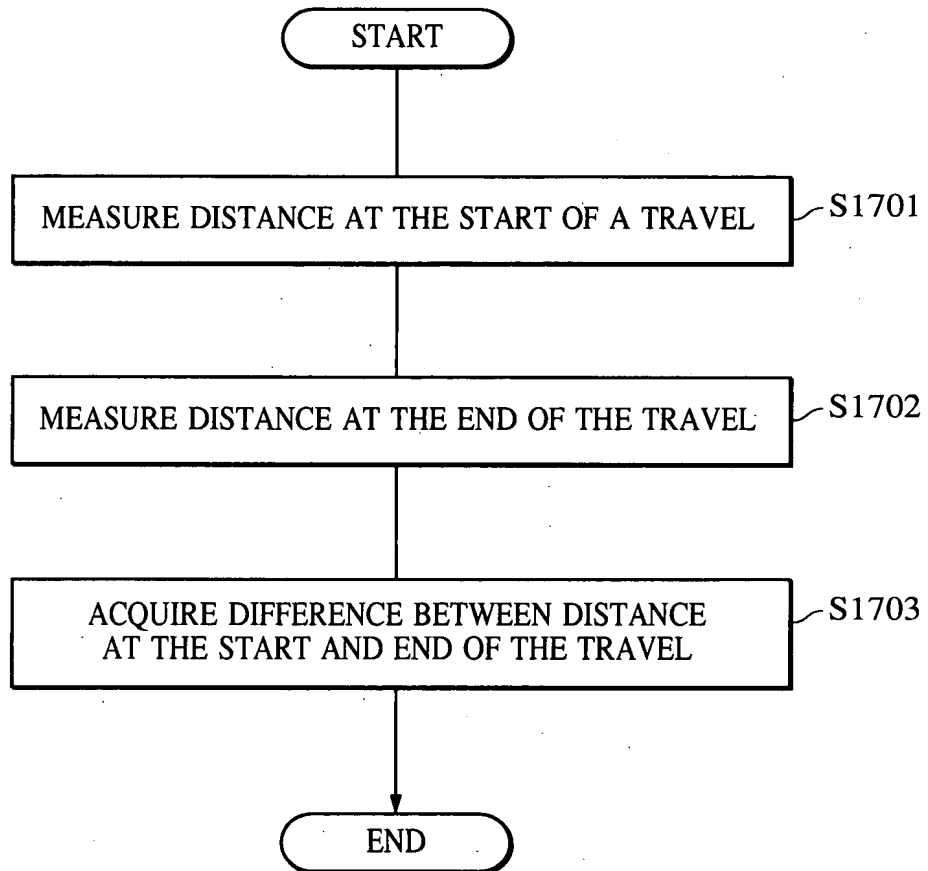


FIG. 17

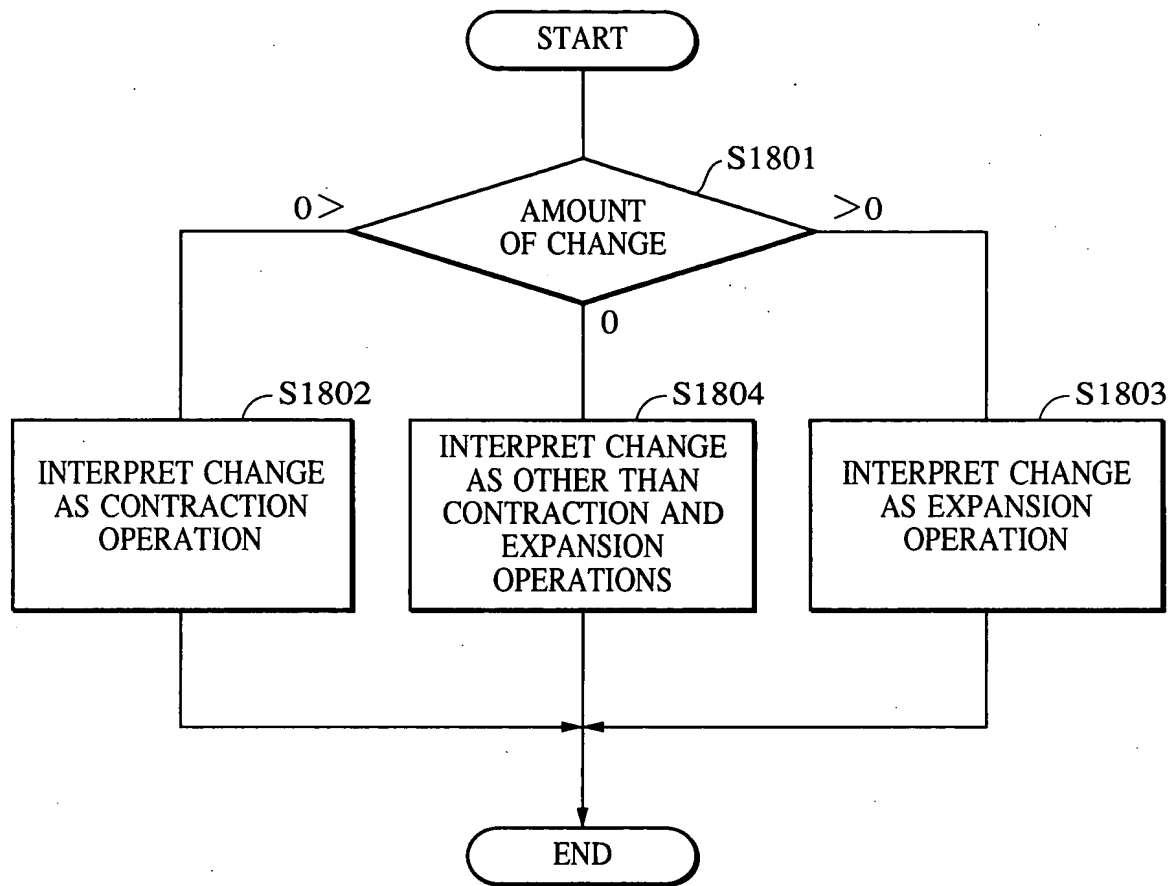
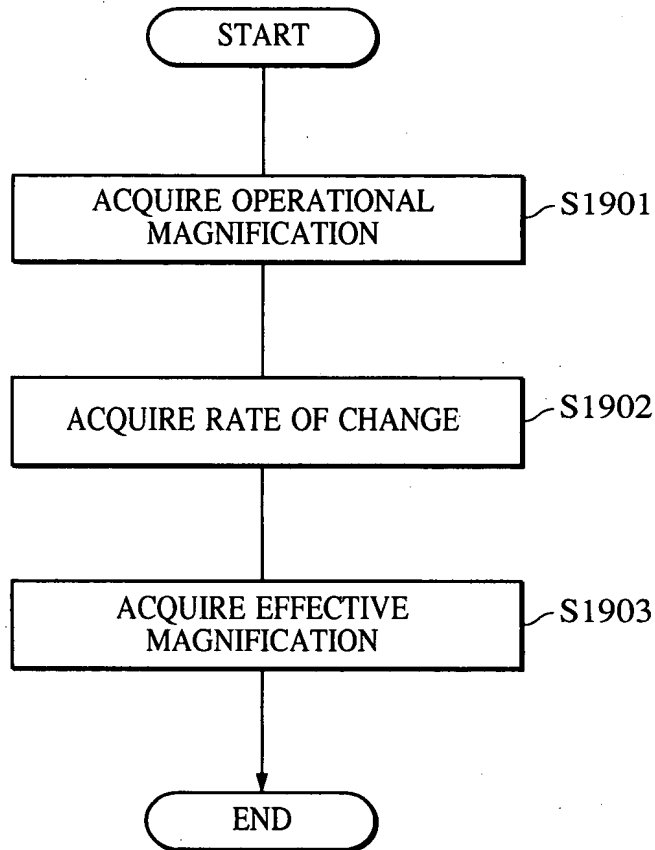


FIG. 18



$$\text{EFFECTIVE MAGNIFICATION} = 100 - (100 - \text{OPERATIONAL MAGNIFICATION}) \times \text{RATE OF CHANGE } \alpha$$

FIG. 19

CONTRACTION OPERATION

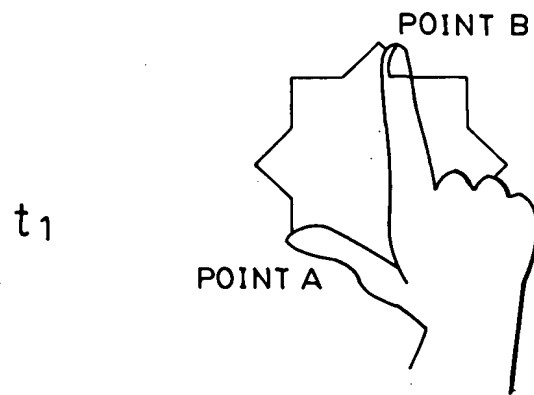


FIG. 20A

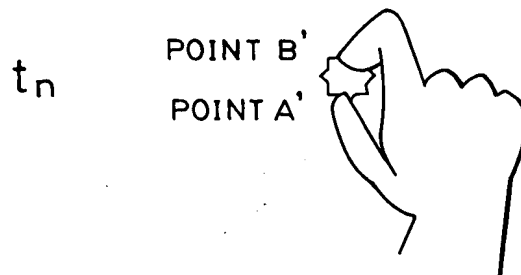


FIG. 20B

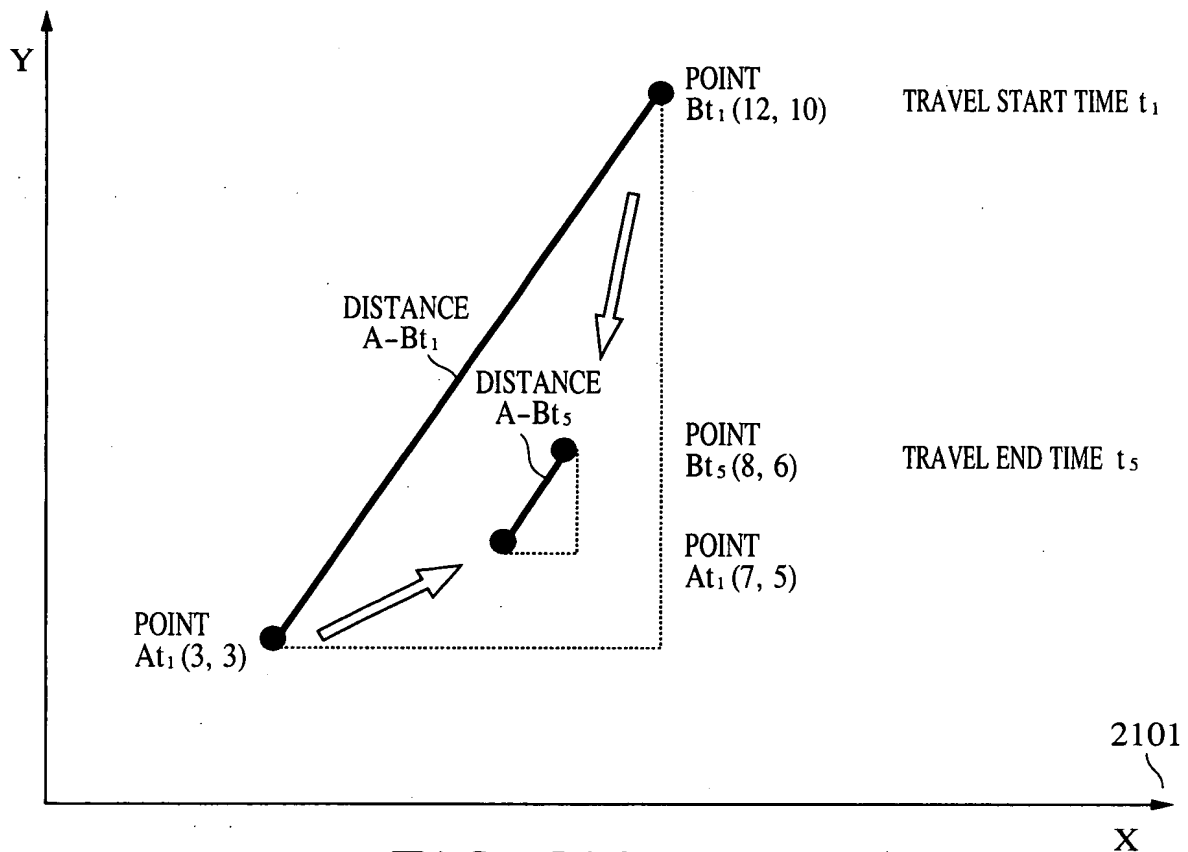


FIG. 21A

DISTANCE BETWEEN DESIGNATED POSITIONS A AND B,  
AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t <sub>n</sub> /DISTANCE t <sub>1</sub> )
t <sub>1</sub>	15.000	100%
t <sub>2</sub>	11.011	73%
t <sub>3</sub>	7.810	52%
t <sub>4</sub>	3.905	26%
t <sub>5</sub>	1.118	7%

2102

FIG. 21B

EXPANSION OPERATION

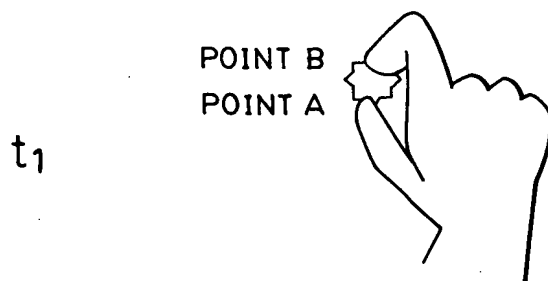


FIG. 22A

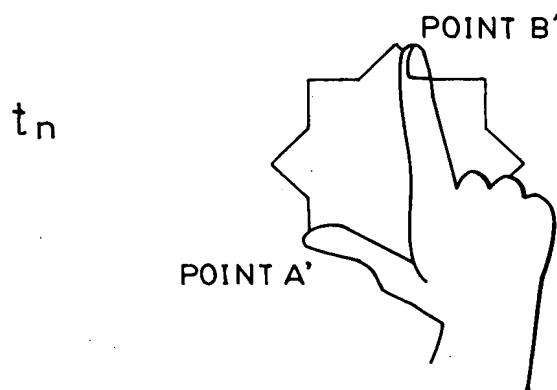


FIG. 22B

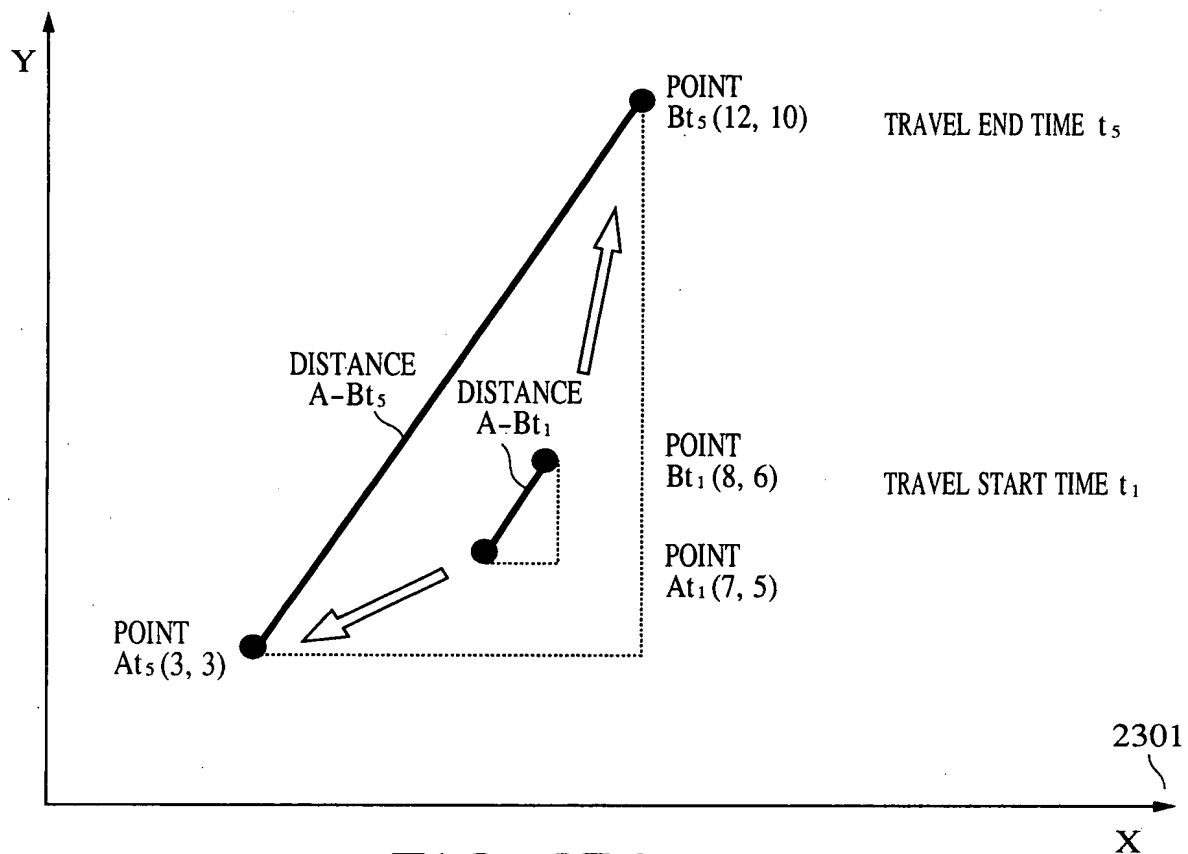


FIG. 23A

DISTANCE BETWEEN DESIGNATED POSITIONS A AND B,  
AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE $t_n$ /DISTANCE $t_1$ )
$t_1$	1.118	100%
$t_2$	4.081	365%
$t_3$	7.080	633%
$t_4$	9.552	854%
$t_5$	11.402	1020%

2302

FIG. 23B

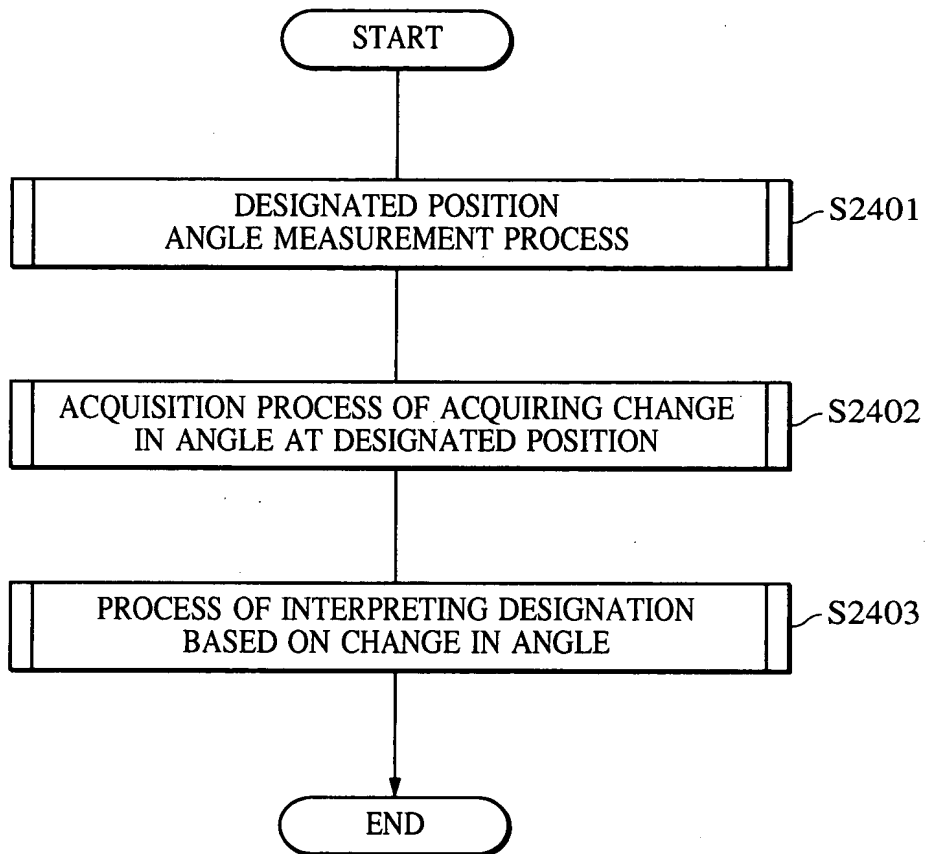


FIG. 24



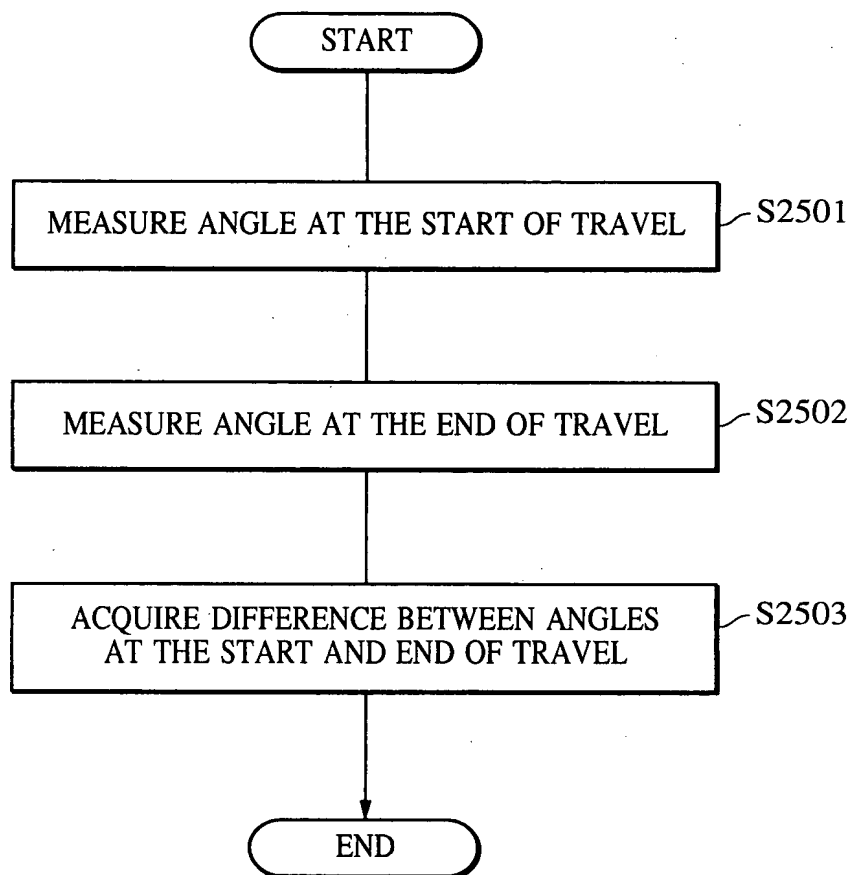


FIG. 25

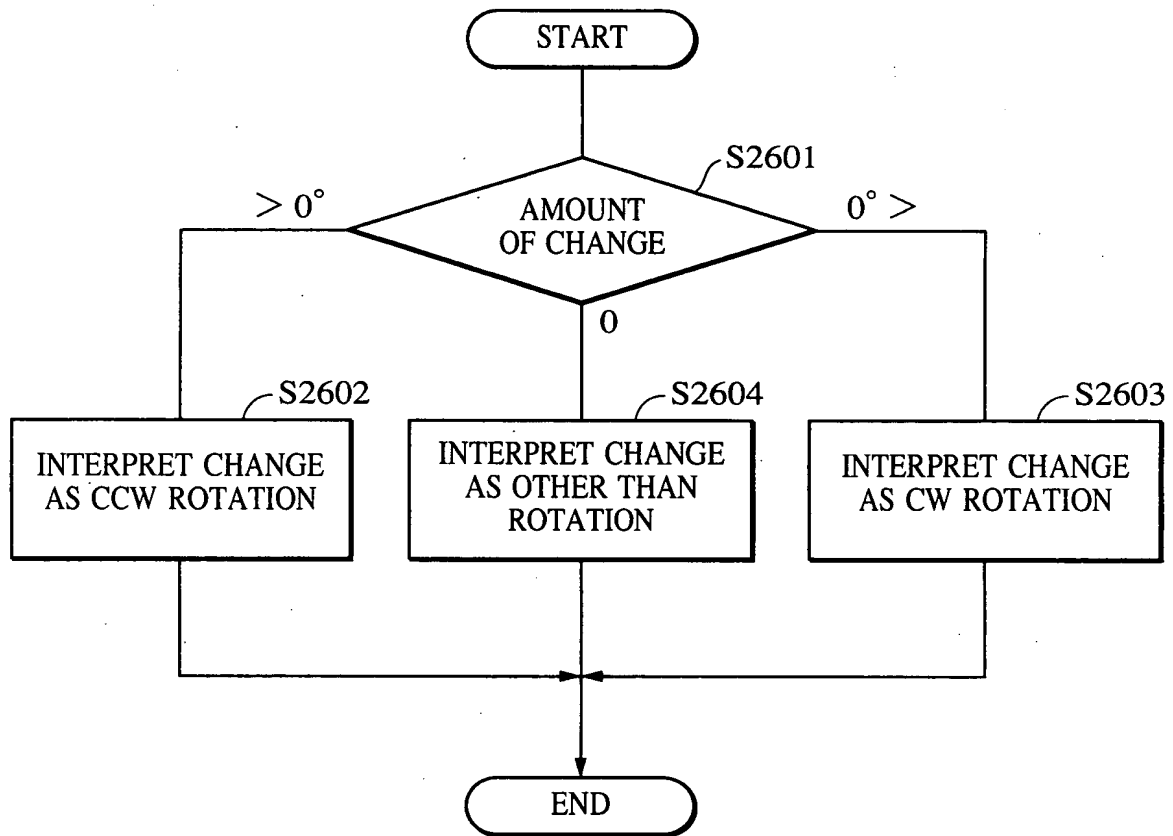


FIG. 26

CW ROTATION

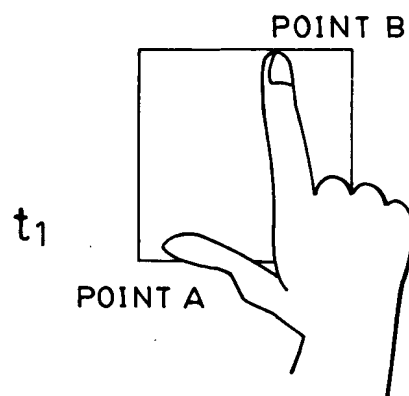


FIG. 27A

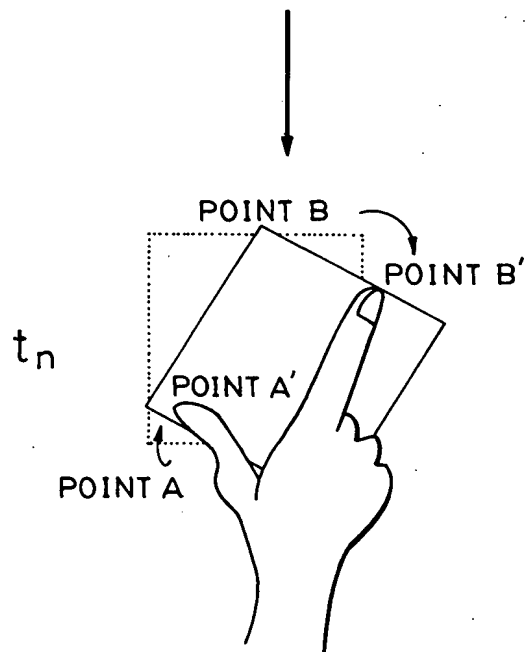


FIG. 27B

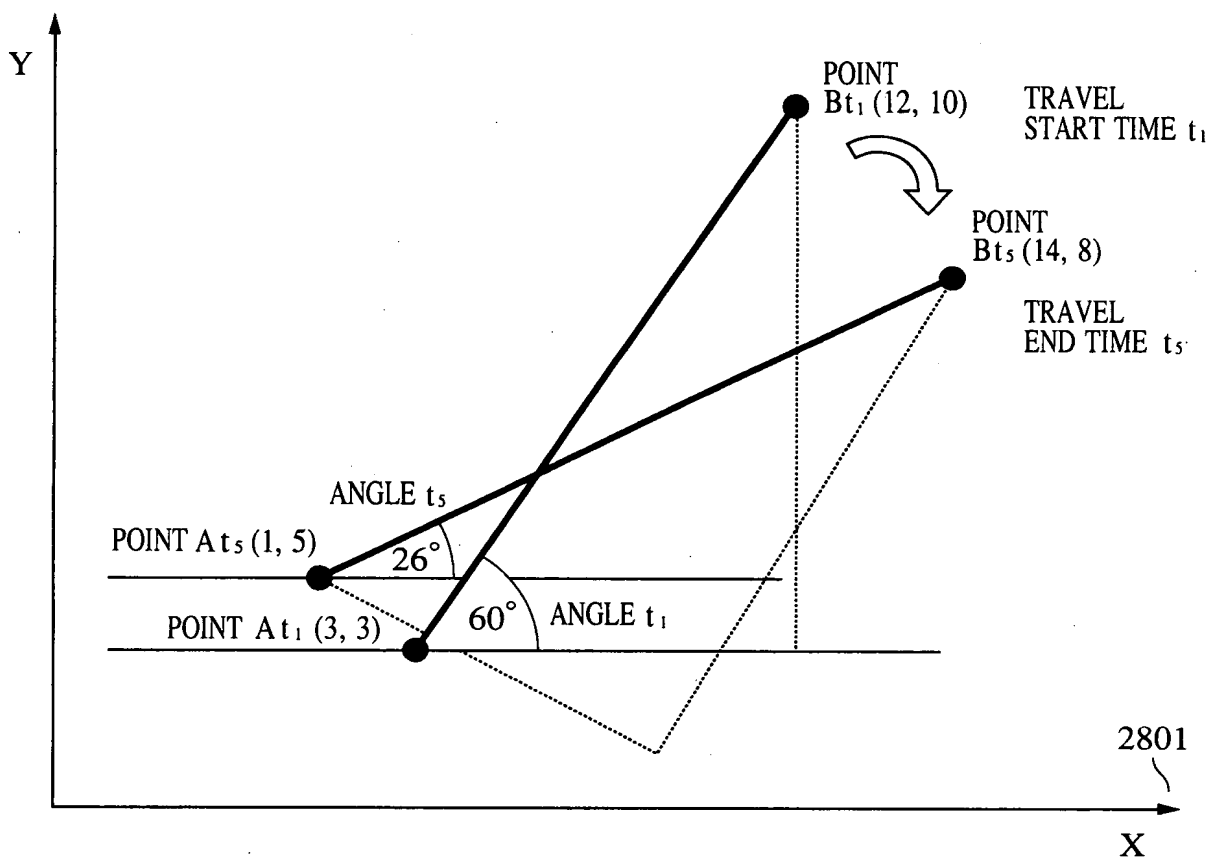


FIG. 28A

ANGLE OF DESIGNATED POSITIONS A AND B,  
AND AMOUNT OF CHANGE

	ANGLE OF LINE AB	AMOUNT OF CHANGE ( $t_n - t_1$ )
$t_1$	60	0
$t_2$	49	-11
$t_3$	40	-20
$t_4$	33	-27
$t_5$	26	-34

2802

FIG. 28B

CCW ROTATION

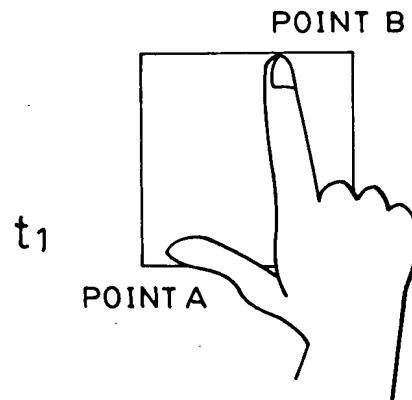


FIG. 29A

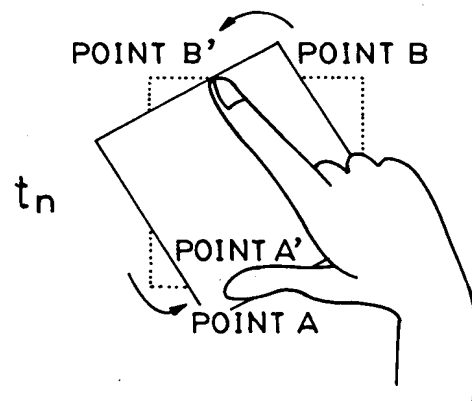


FIG. 29B

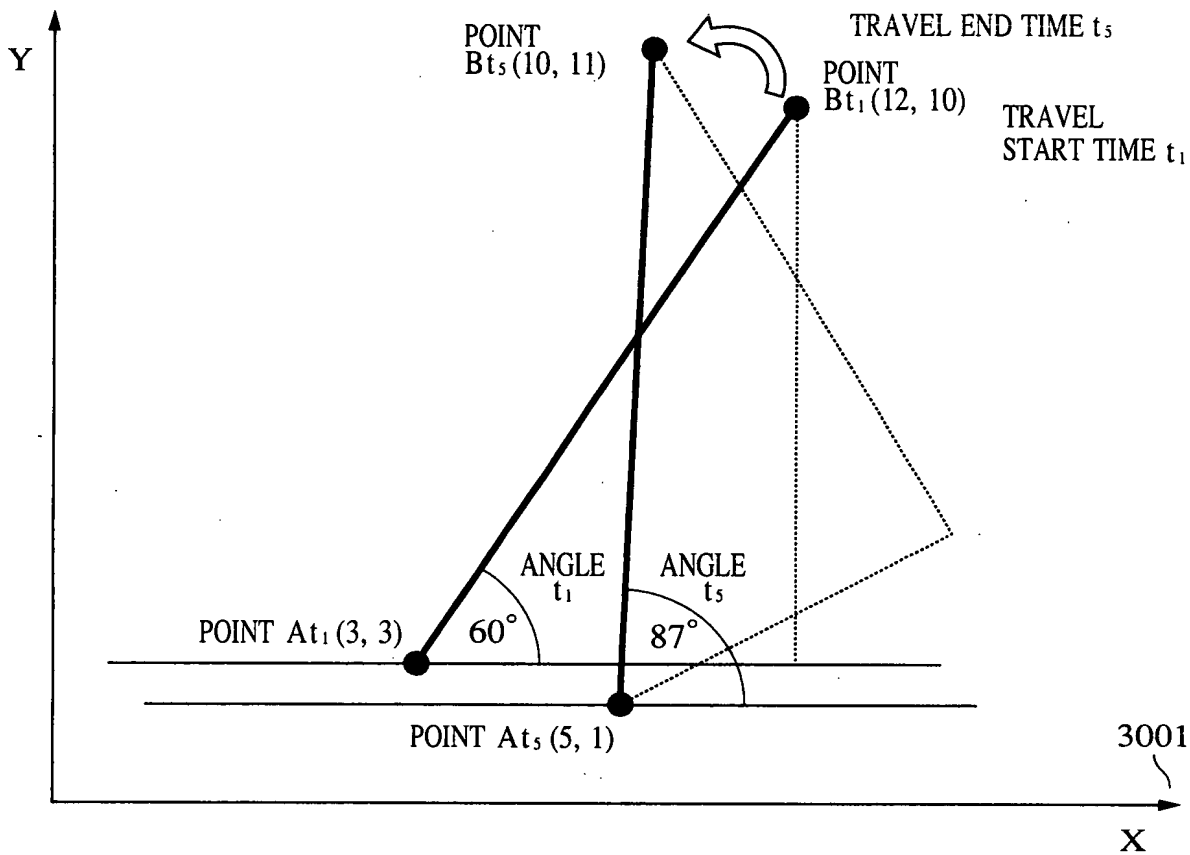


FIG. 30A

ANGLE OF DESIGNATED POSITIONS A AND B,  
AND AMOUNT OF CHANGE

	ANGLE OF LINE AB	AMOUNT OF CHANGE ( $t_n - t_1$ )
$t_1$	60	0
$t_2$	65	5
$t_3$	70	10
$t_4$	80	20
$t_5$	87	27

3002

FIG. 30B

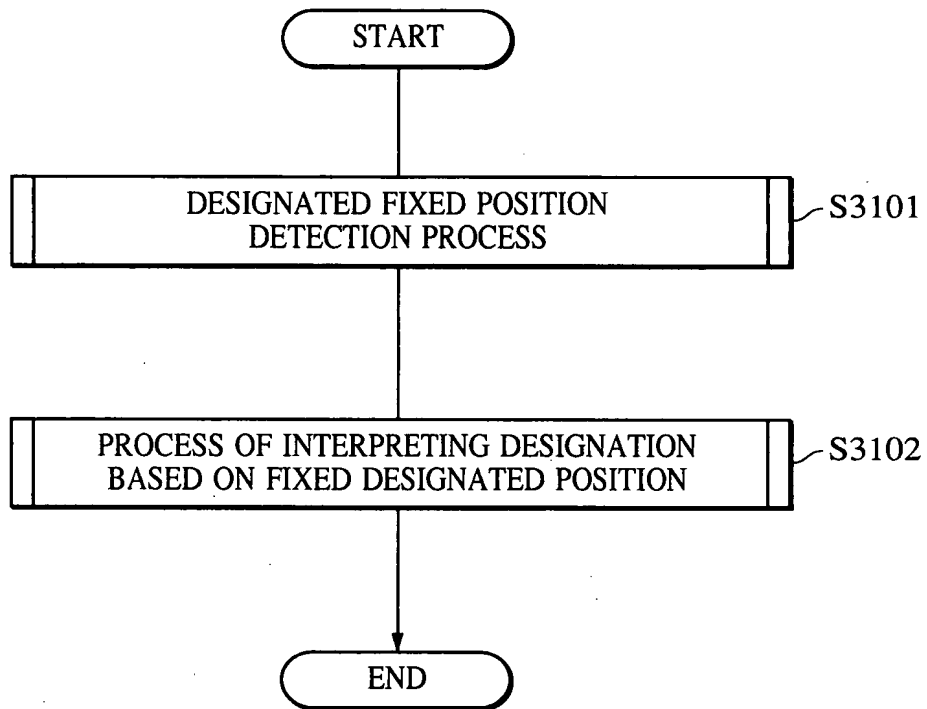


FIG. 31

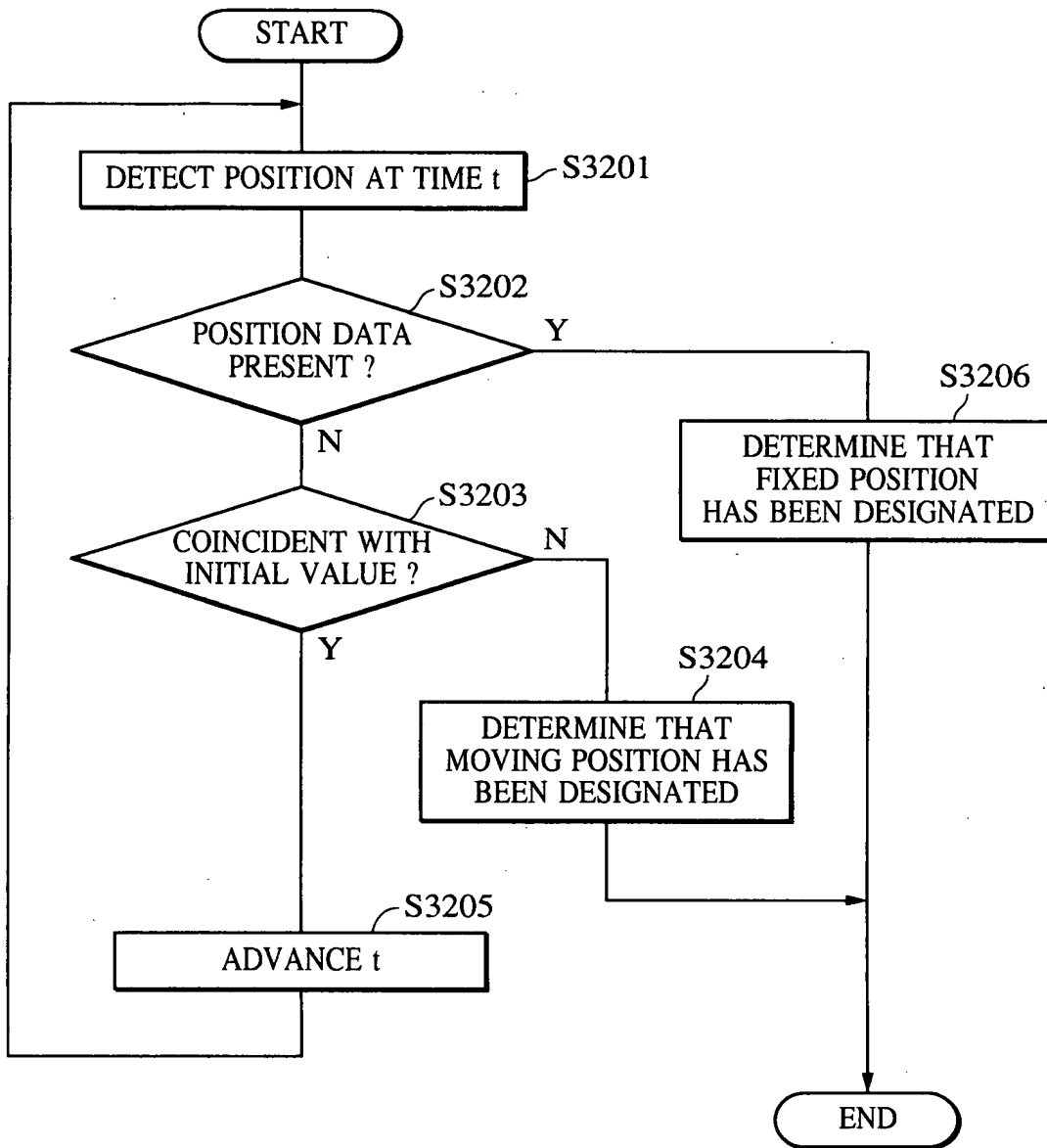


FIG. 32



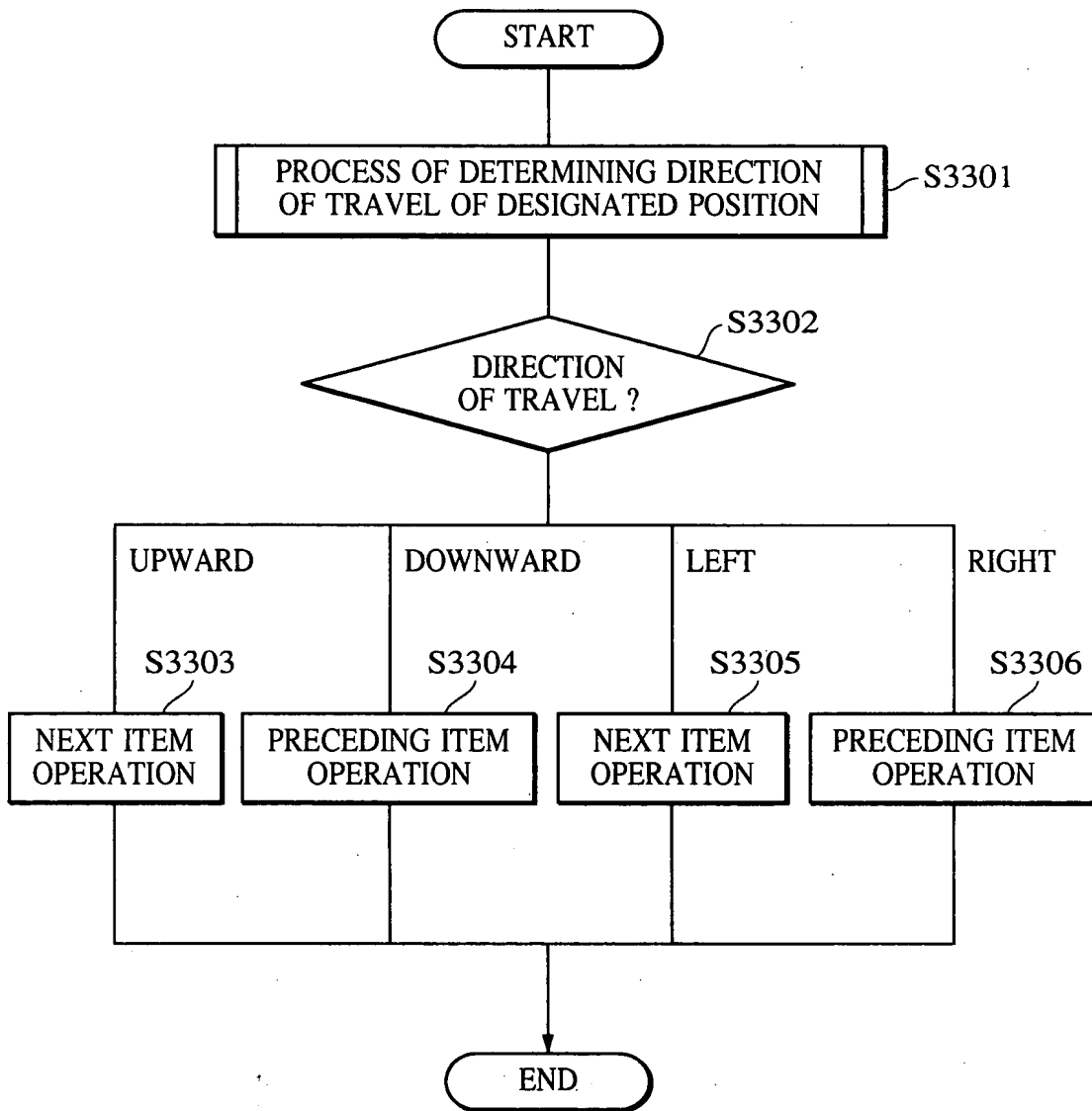


FIG. 33

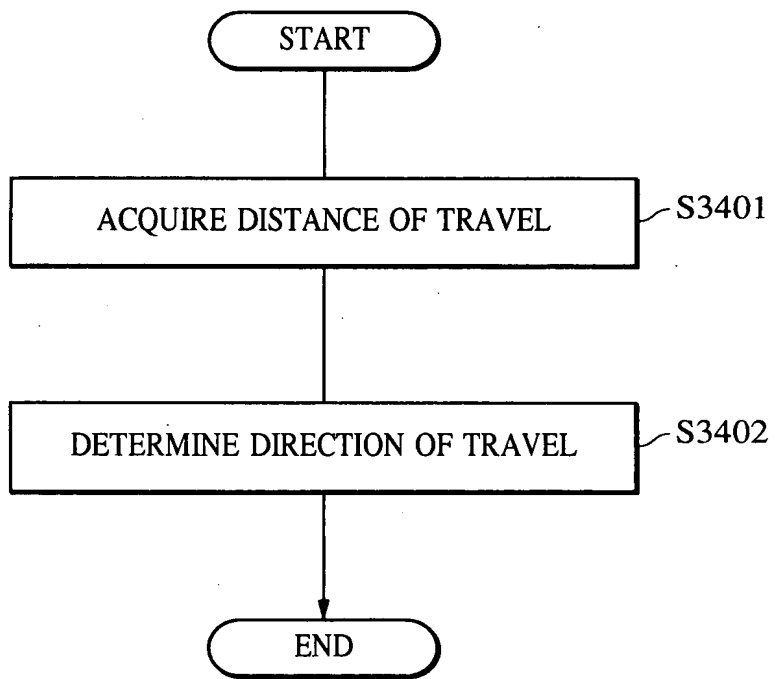


FIG. 34

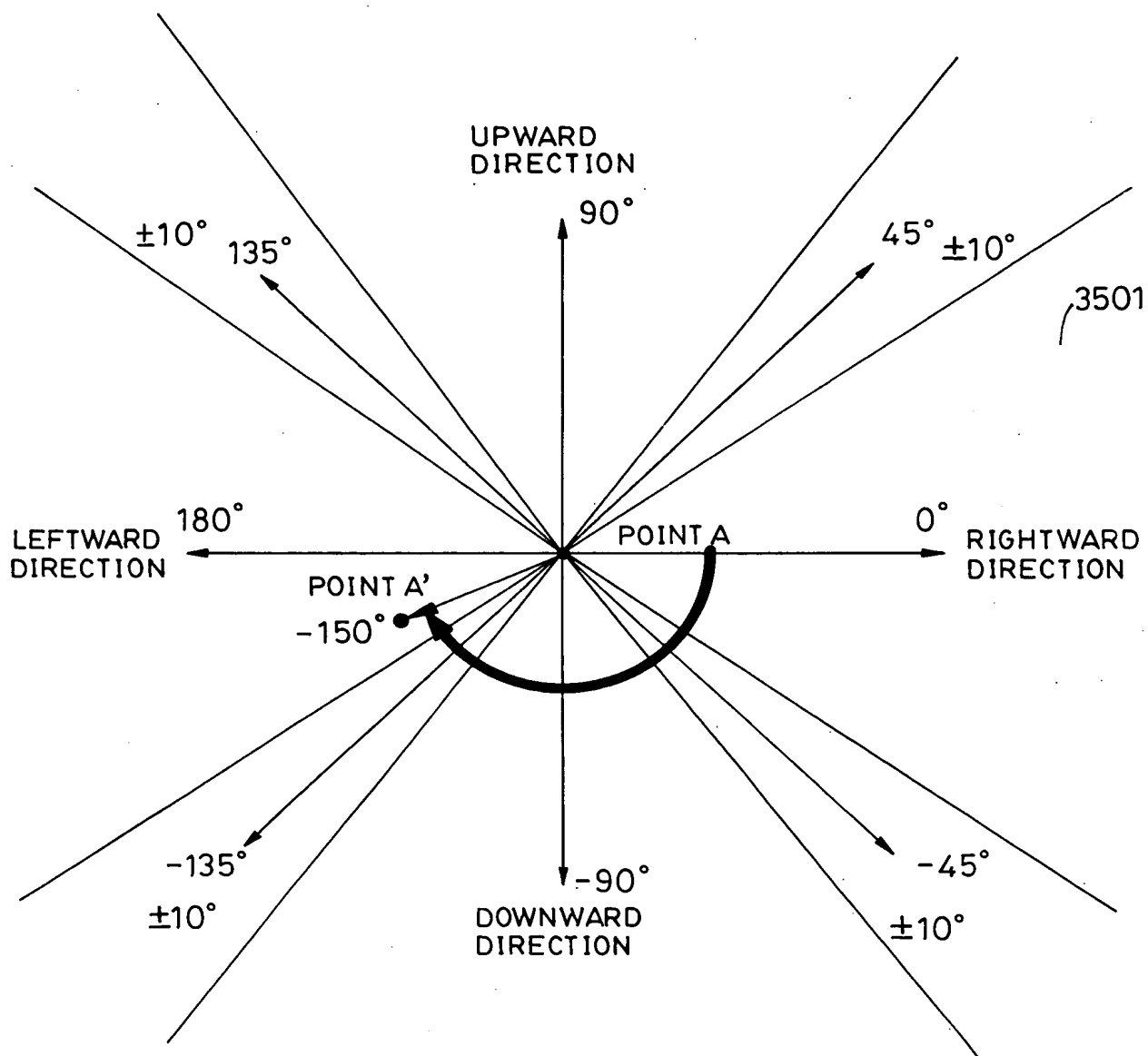


FIG. 35

LEFTWARD TRAVEL

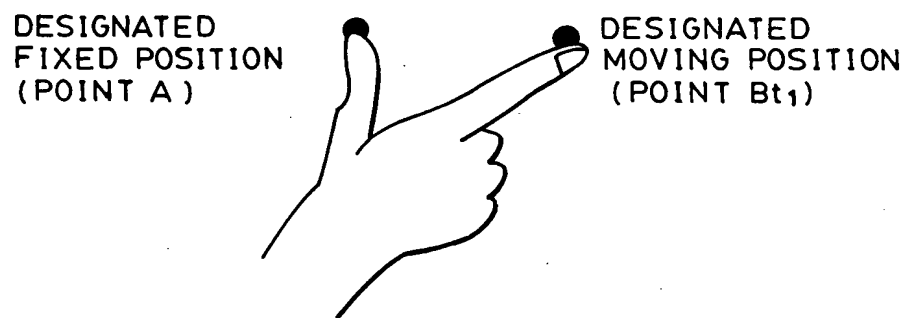


FIG. 36A

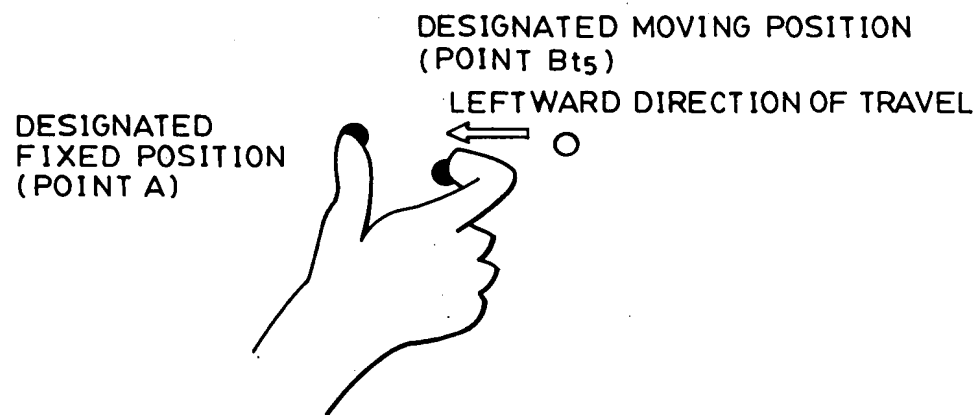


FIG. 36B

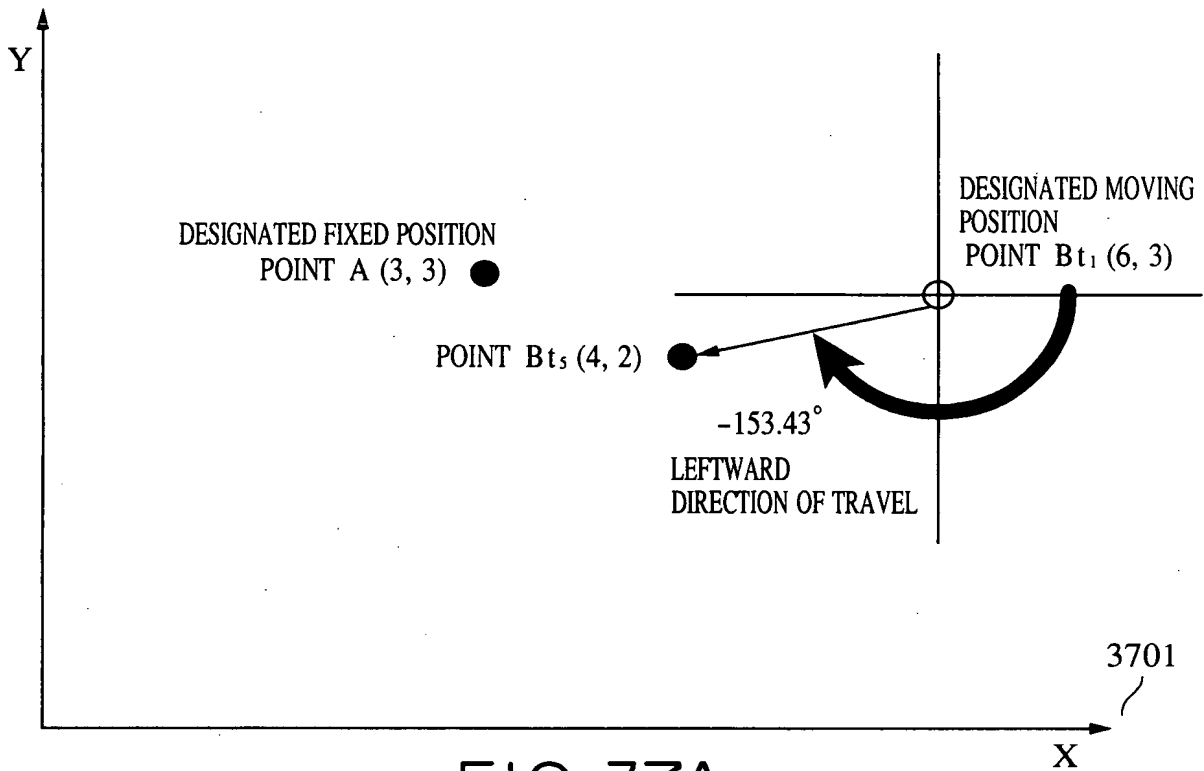


FIG. 37A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 37B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	6.0	3.0
t <sub>2</sub>	5.3	2.3
t <sub>3</sub>	4.7	1.7
t <sub>4</sub>	4.3	1.2
t <sub>5</sub>	4.0	2.0

3702

FIG. 37C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL (DEGREES)
t <sub>1</sub>	0.000	0.000	-153.43
t <sub>2</sub>	0.000	0.000	-153.43
t <sub>3</sub>	0.000	1.862	-153.43
t <sub>4</sub>	0.000	2.453	-153.43
t <sub>5</sub>	0.000	2.236	153.43

3703

FIG. 37D

UPWARD TRAVEL

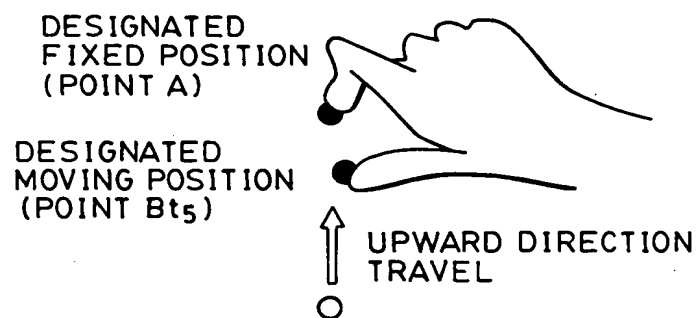
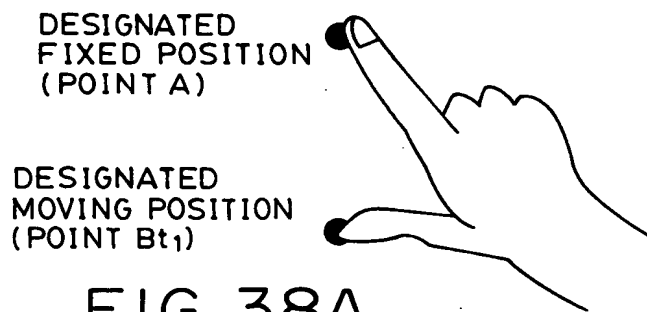


FIG. 38B

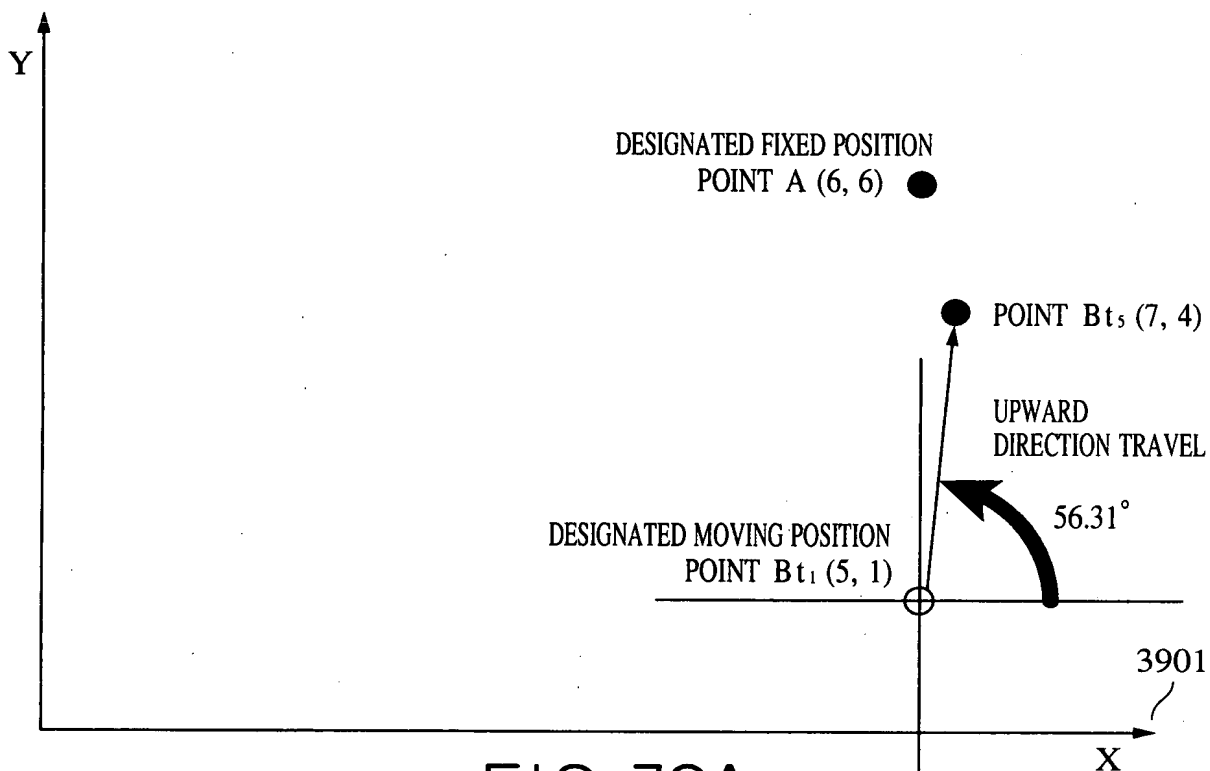


FIG. 39A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	6	6
t <sub>2</sub>	6	6
t <sub>3</sub>	6	6
t <sub>4</sub>	6	6
t <sub>5</sub>	6	6

FIG. 39B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	5.0	1.0
t <sub>2</sub>	5.6	1.8
t <sub>3</sub>	6.0	2.3
t <sub>4</sub>	6.6	3.5
t <sub>5</sub>	7.0	4.0

FIG. 39C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t <sub>1</sub>	0.000	0.000	0.00
t <sub>2</sub>	0.000	1.000	53.13
t <sub>3</sub>	0.000	1.640	52.43
t <sub>4</sub>	0.000	2.968	57.38
t <sub>5</sub>	0.000	3.606	56.31

FIG. 39D

DOWNWARD TRAVEL

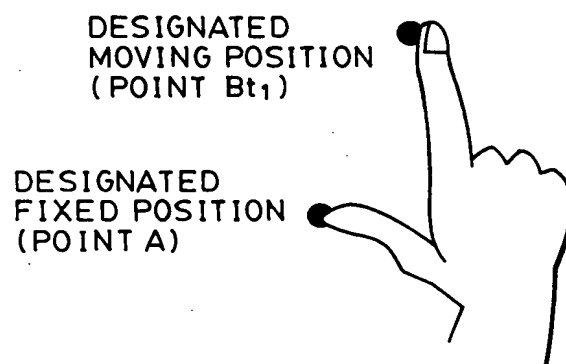


FIG. 40A

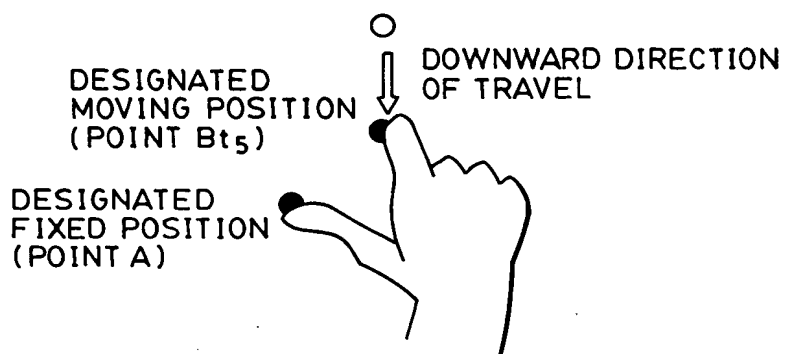


FIG. 40B



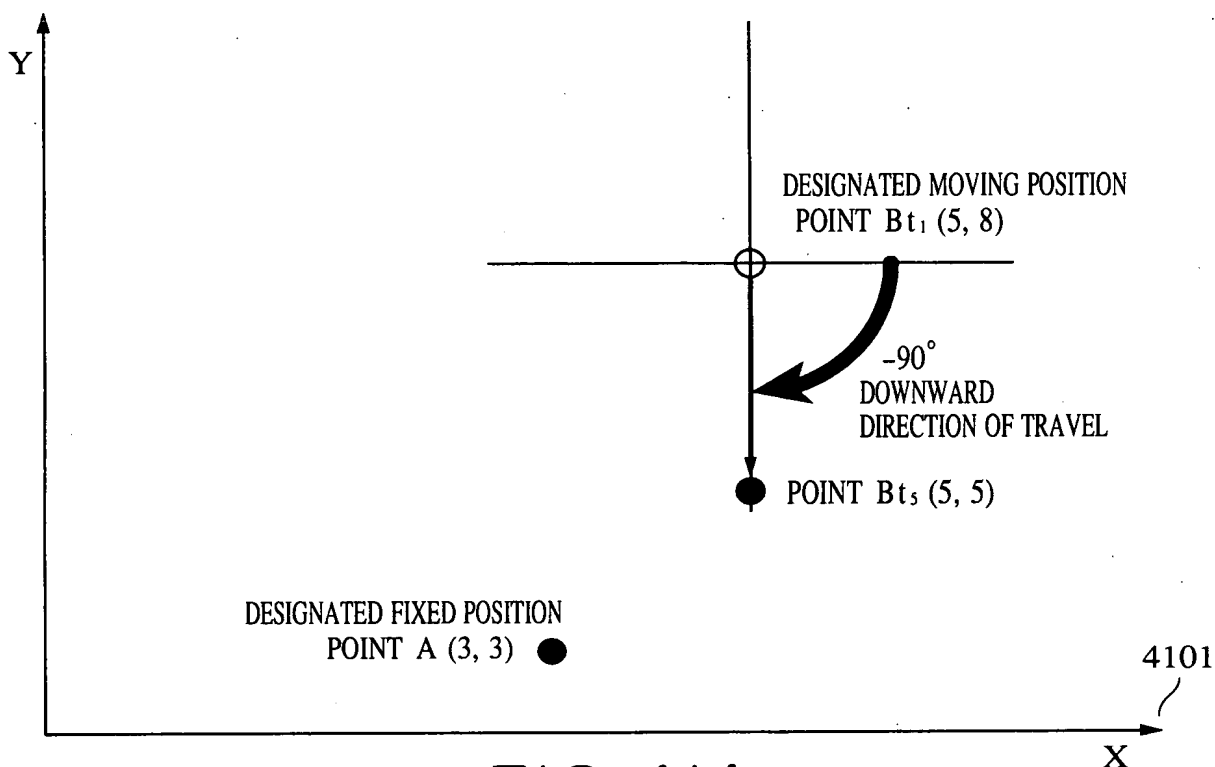


FIG. 41A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	3	3
$t_2$	3	3
$t_3$	3	3
$t_4$	3	3
$t_5$	3	3

FIG. 41B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	5.0	8.0
$t_2$	5.0	7.2
$t_3$	5.0	6.5
$t_4$	5.0	5.6
$t_5$	5.0	5.0

4102

FIG. 41C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
$t_1$	0.000	0.000	0.00
$t_2$	0.000	0.800	-90.00
$t_3$	0.000	1.500	-90.00
$t_4$	0.000	2.400	-90.00
$t_5$	0.000	3.000	-90.00

4103

FIG. 41D

RIGHTWARD TRAVEL

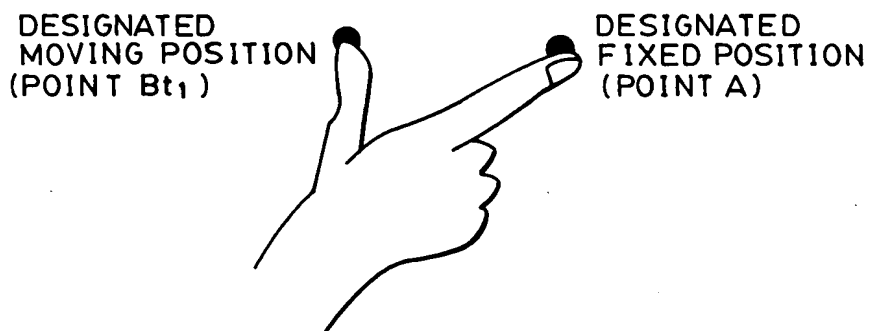


FIG. 42A

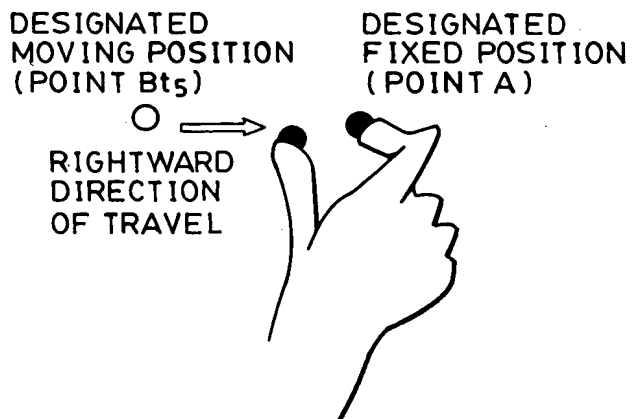


FIG. 42B

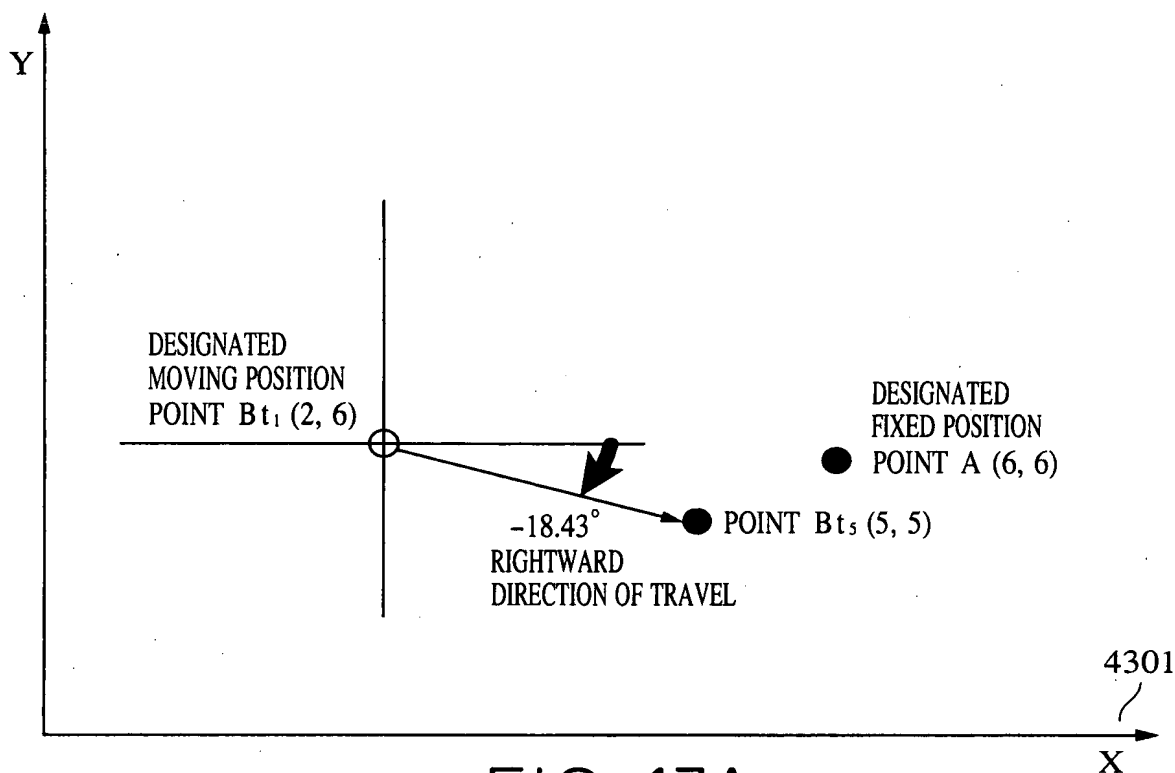


FIG. 43A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	6	6
t <sub>2</sub>	6	6
t <sub>3</sub>	6	6
t <sub>4</sub>	6	6
t <sub>5</sub>	6	6

FIG. 43B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	2.0	6.0
t <sub>2</sub>	2.8	5.7
t <sub>3</sub>	3.5	5.6
t <sub>4</sub>	4.2	5.2
t <sub>5</sub>	5.0	5.0

FIG. 43C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t <sub>1</sub>	0.000	0.000	0.00
t <sub>2</sub>	0.000	4.892	-40.86
t <sub>3</sub>	0.000	4.383	-34.78
t <sub>4</sub>	0.000	3.672	-29.36
t <sub>5</sub>	0.000	3.162	-18.43

FIG. 43D

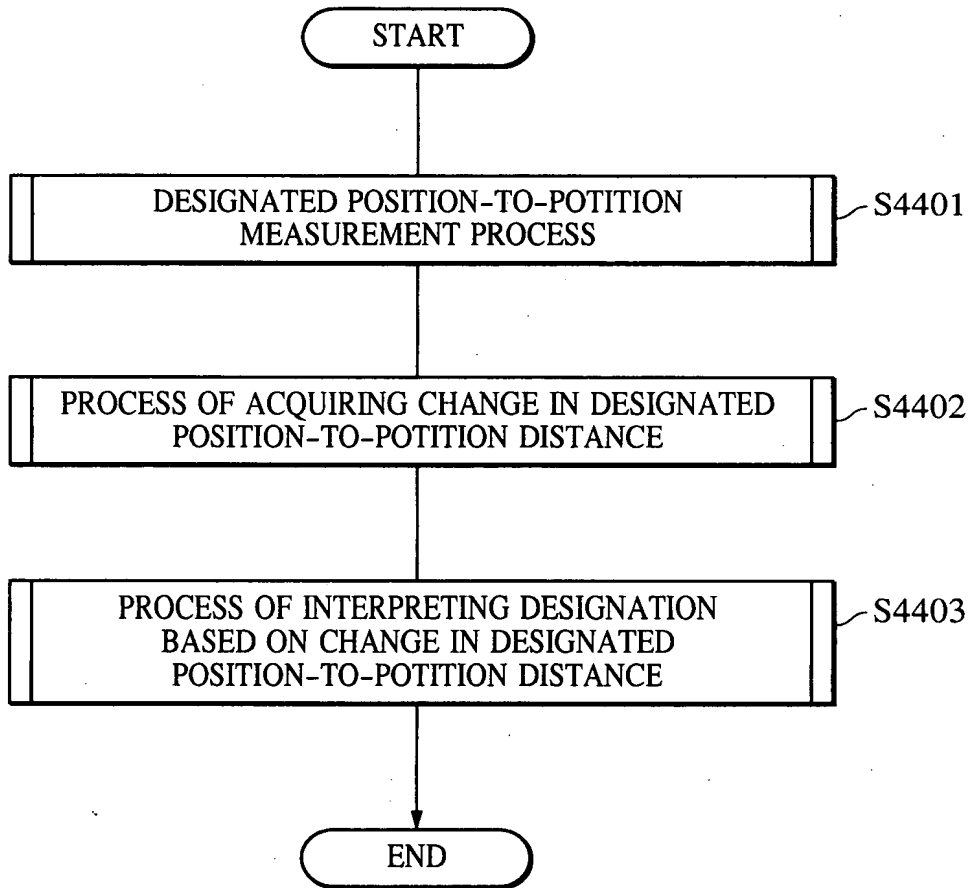


FIG. 44

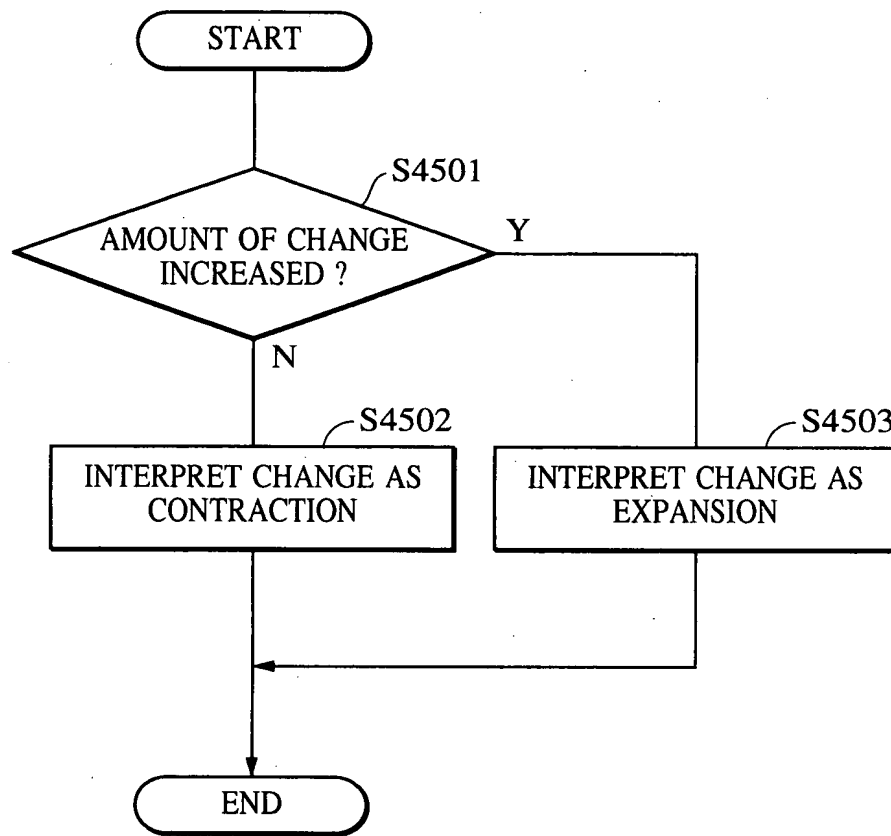


FIG. 45

CONTRACTION OPERATION

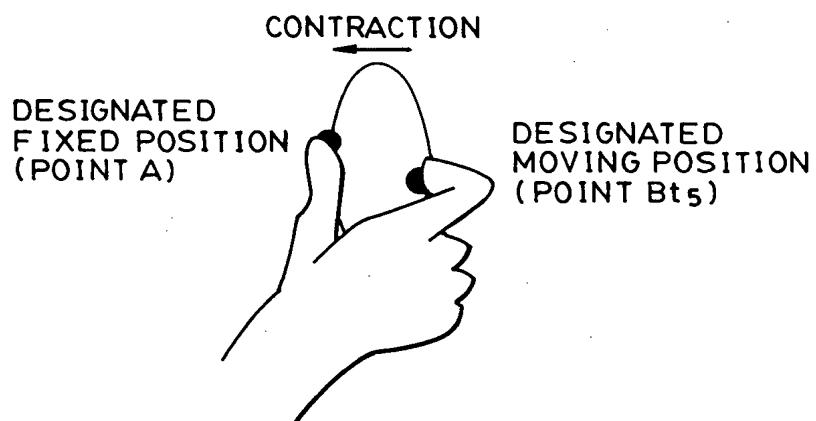
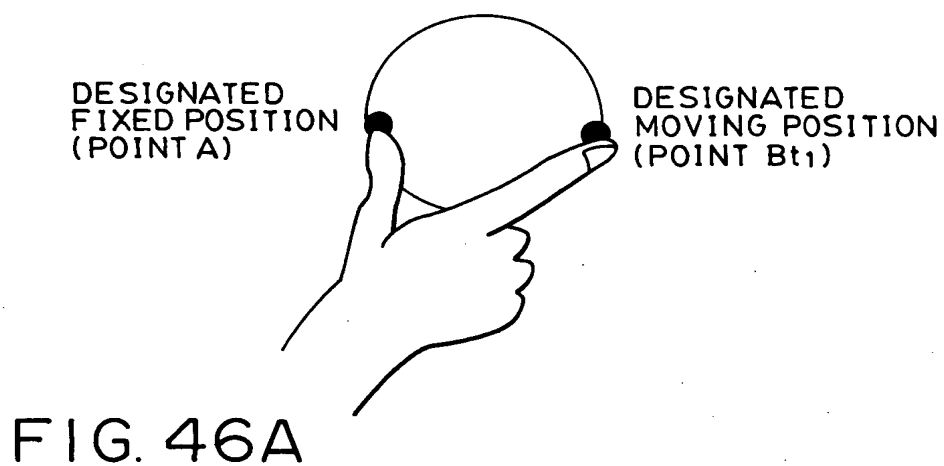


FIG. 46B

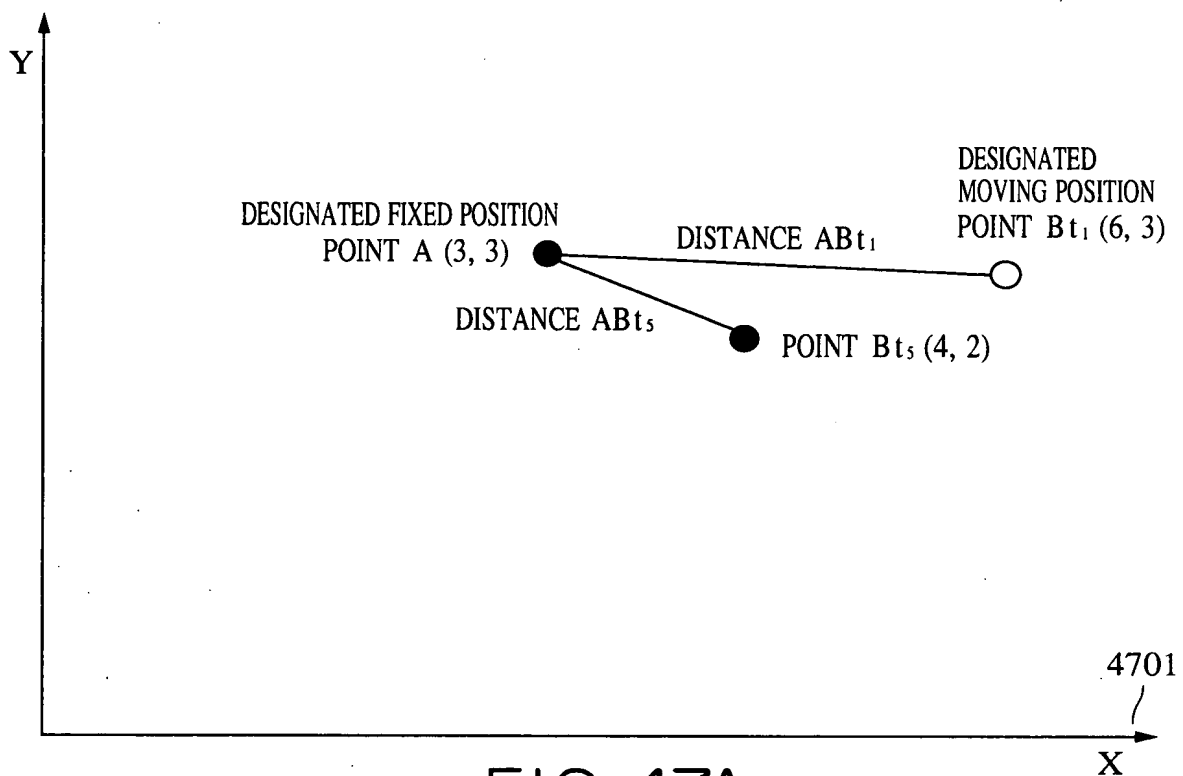


FIG. 47A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 47B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	6.0	3.0
t <sub>2</sub>	5.3	2.3
t <sub>3</sub>	4.7	1.7
t <sub>4</sub>	4.3	1.2
t <sub>5</sub>	4.0	2.0

FIG. 47C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE 4703

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub> )	DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub>
t <sub>1</sub>	3.000	100%	0.000
t <sub>2</sub>	2.436	81%	-0.564
t <sub>3</sub>	2.114	70%	-0.886
t <sub>4</sub>	2.240	75%	-0.760
t <sub>5</sub>	1.414	47%	-1.586

FIG. 47D

EXPANSION OPERATION

DESIGNATED  
FIXED POSITION  
(POINT A)

DESIGNATED  
MOVING POSITION  
(POINT Bt<sub>1</sub>)

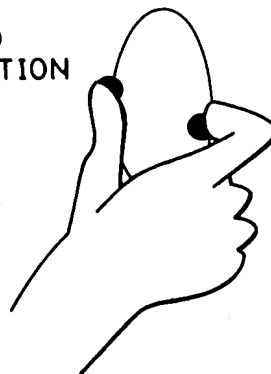


FIG. 48A



EXPANDED  
→

DESIGNATED  
FIXED POSITION  
(POINT A)

DESIGNATED  
MOVING POSITION  
(POINT Bt<sub>5</sub>)

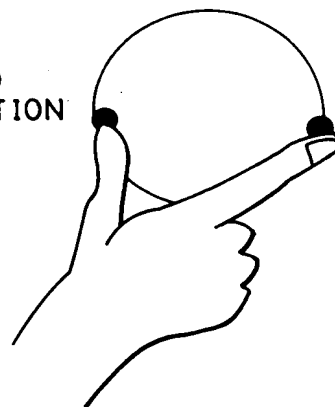


FIG. 48B

FIG. 48A - FIG. 48B



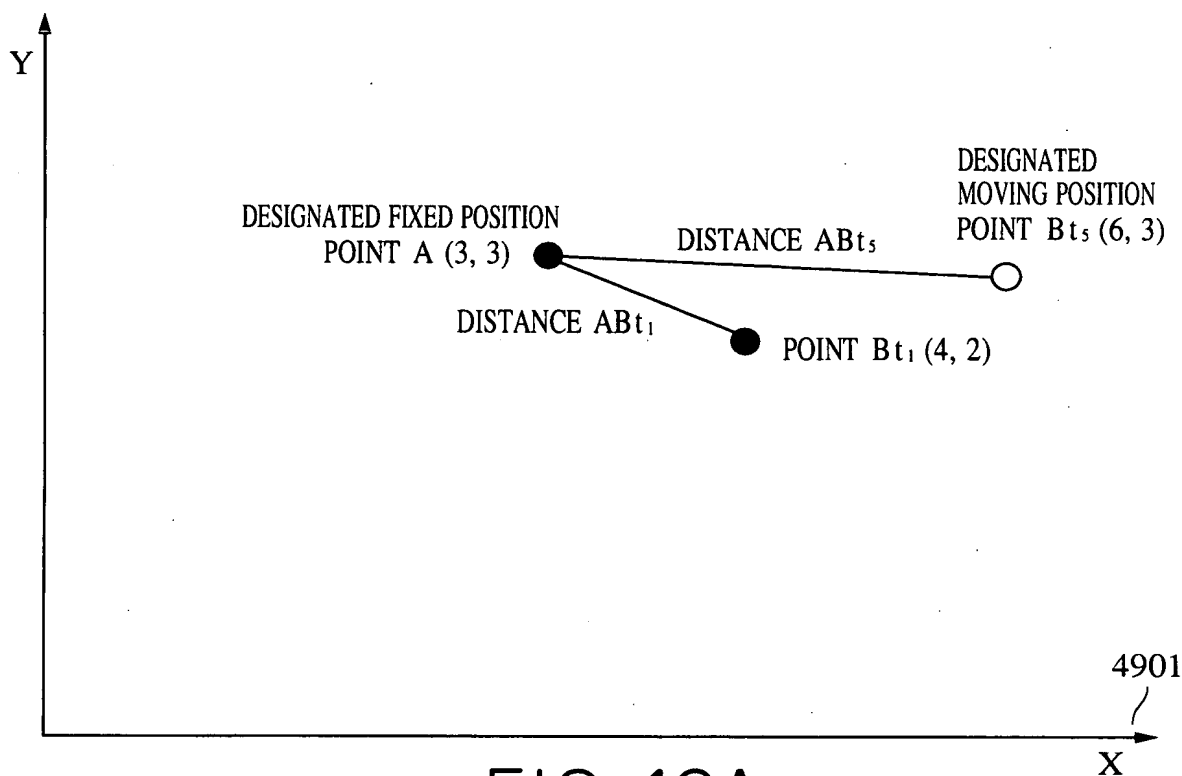


FIG. 49A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 49B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	2.0
t <sub>2</sub>	4.5	2.2
t <sub>3</sub>	5.2	2.5
t <sub>4</sub>	5.8	2.8
t <sub>5</sub>	6.0	3.0

FIG. 49C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.414	100%
t <sub>2</sub>	1.700	120%
t <sub>3</sub>	2.256	160%
t <sub>4</sub>	2.807	198%
t <sub>5</sub>	3.000	212%

FIG. 49D

CONTRACTION OPERATION

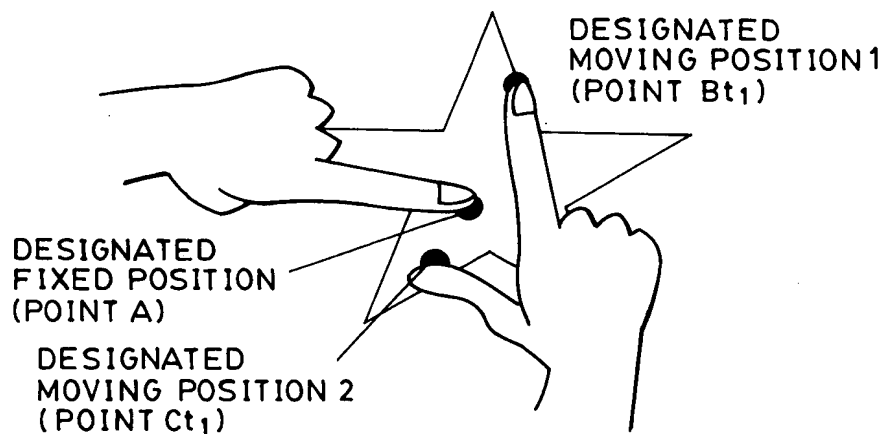


FIG. 50A

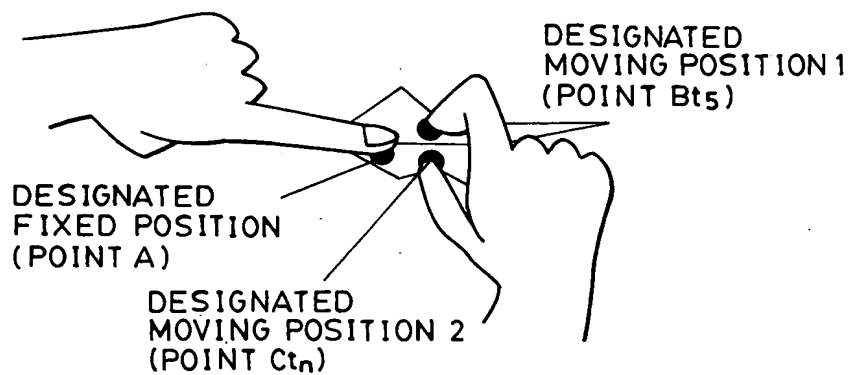


FIG. 50B

FIG. 51A

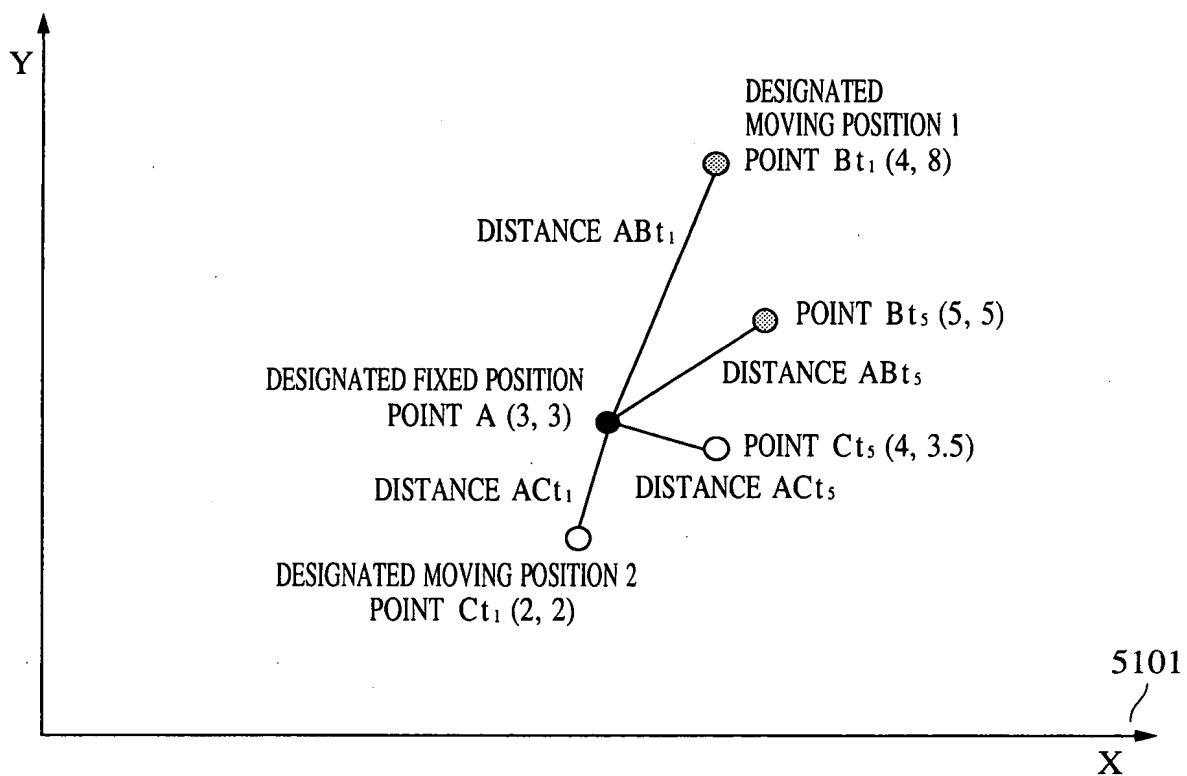


FIG. 51A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

DESIGNATED MOVING POSITION 1  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	8.0
t <sub>2</sub>	4.2	7.2
t <sub>3</sub>	4.4	6.3
t <sub>4</sub>	4.7	5.8
t <sub>5</sub>	5.0	5.0

DESIGNATED MOVING POSITION 2  
POSITION DATA OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	2.0	2.0
t <sub>2</sub>	2.8	2.3
t <sub>3</sub>	3.4	2.8
t <sub>4</sub>	3.8	3.3
t <sub>5</sub>	4.0	3.5

FIG. 51B

FIG. 51C

FIG. 51D

DATA 1 OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	5.099	100%
t <sub>2</sub>	4.368	86%
t <sub>3</sub>	3.585	70%
t <sub>4</sub>	3.276	64%
t <sub>5</sub>	2.828	55%

FIG. 51E

DATA 2 OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.414	100%
t <sub>2</sub>	0.728	51%
t <sub>3</sub>	0.447	32%
t <sub>4</sub>	0.854	60%
t <sub>5</sub>	1.118	79%

FIG. 51F

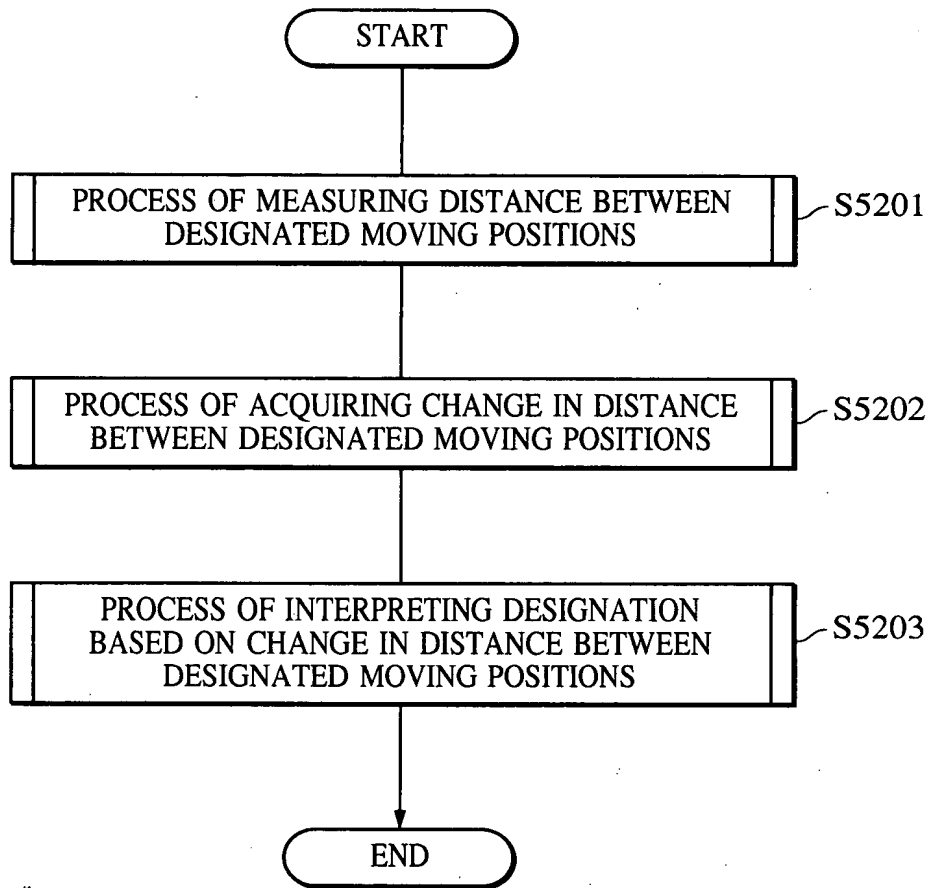
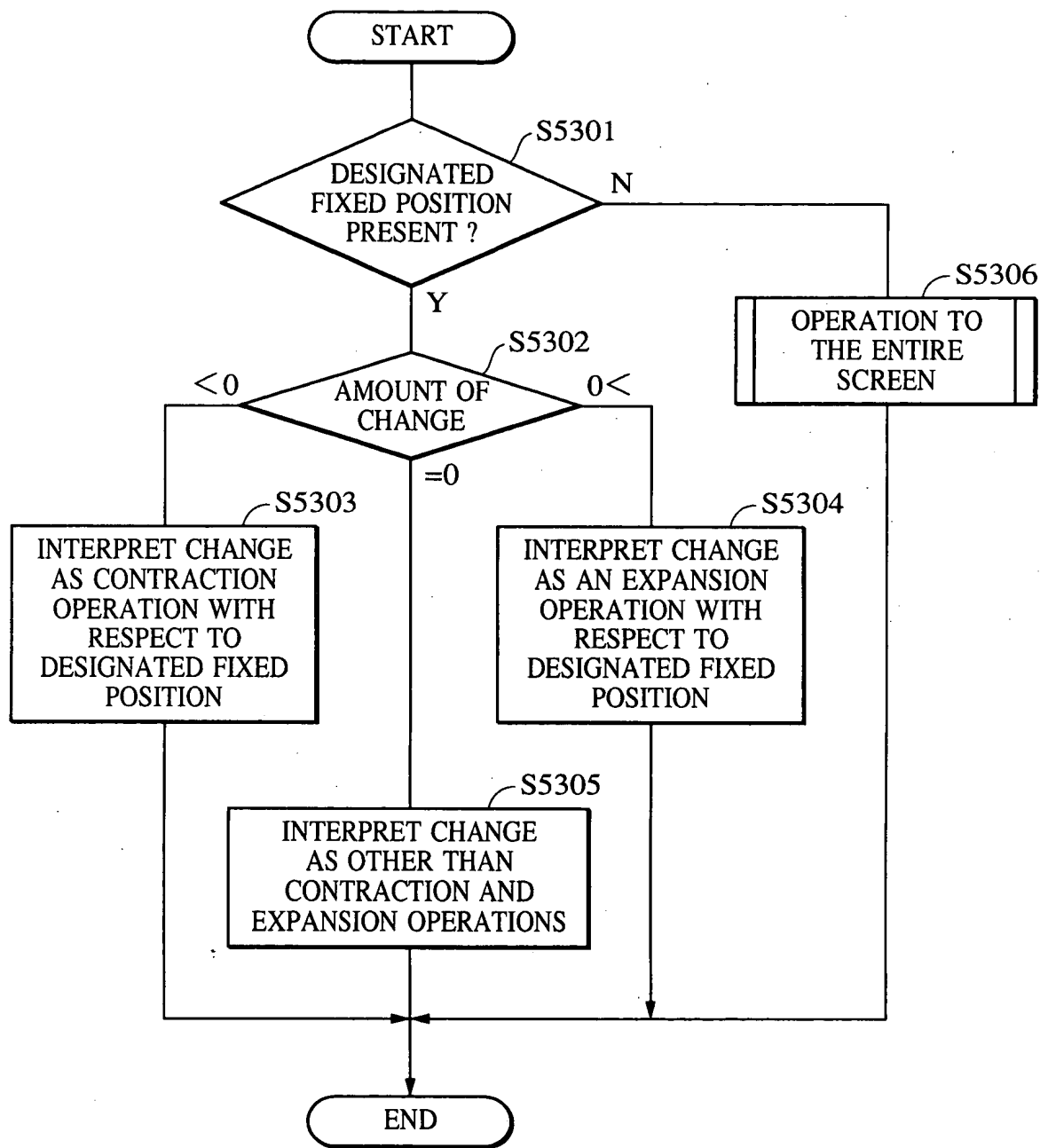


FIG. 52



CONTRACTION OPERATION

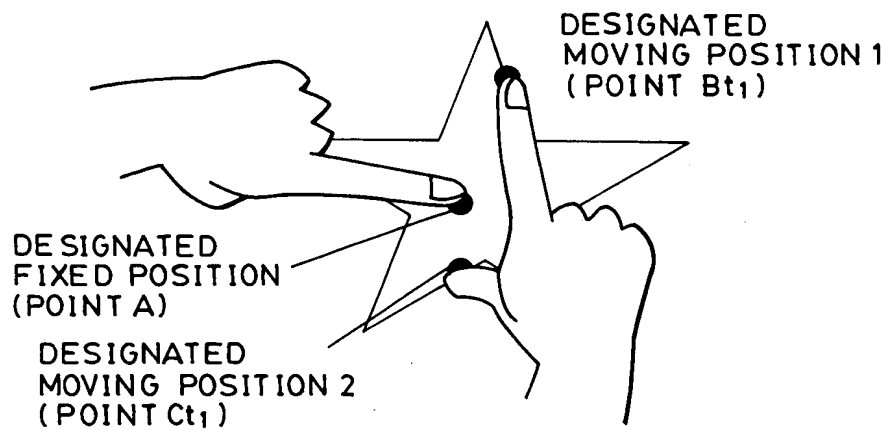


FIG. 54A

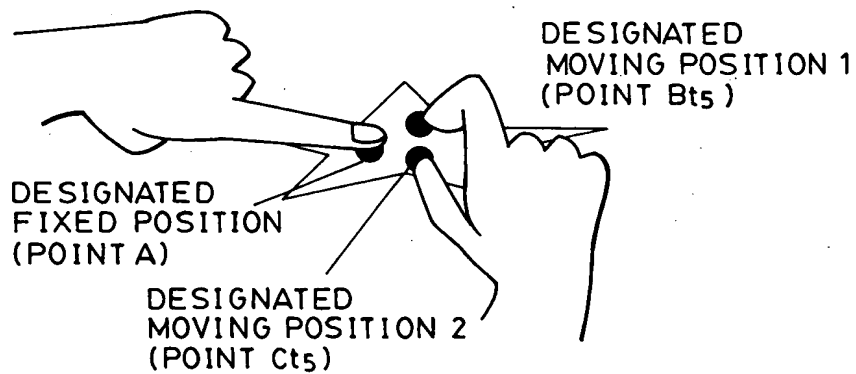


FIG. 54B

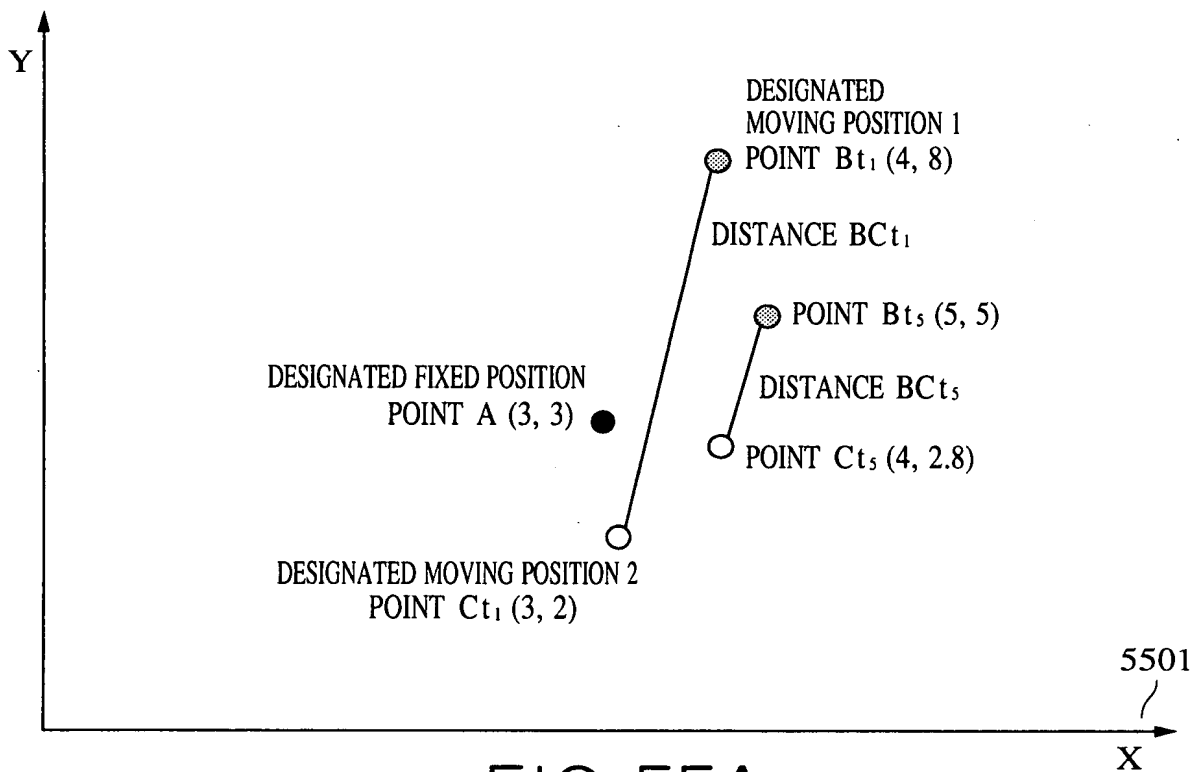


FIG. 55A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	3	3
$t_2$	3	3
$t_3$	3	3
$t_4$	3	3
$t_5$	3	3

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	4.0	8.0
$t_2$	4.2	7.2
$t_3$	4.4	6.3
$t_4$	4.7	5.8
$t_5$	5.0	5.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	$C_x$	$C_y$
$t_1$	3.0	2.0
$t_2$	3.2	2.2
$t_3$	3.4	2.4
$t_4$	3.8	2.6
$t_5$	4.0	2.8

5502

FIG. 55B

FIG. 55C

FIG. 55D

DATA OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

5503

	DISTANCE BETWEEN B AND C	MAGNIFICATION.. (DISTANCE $t_n$ / DISTANCE $t_1$ )
$t_1$	6.083	100%
$t_2$	5.099	84%
$t_3$	4.026	66%
$t_4$	3.324	55%
$t_5$	2.417	40%

FIG. 55E



CONTRACTION OPERATION

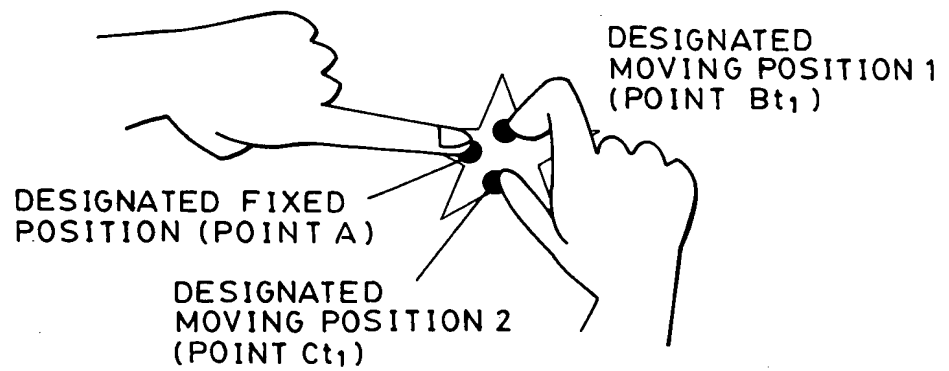


FIG. 56A

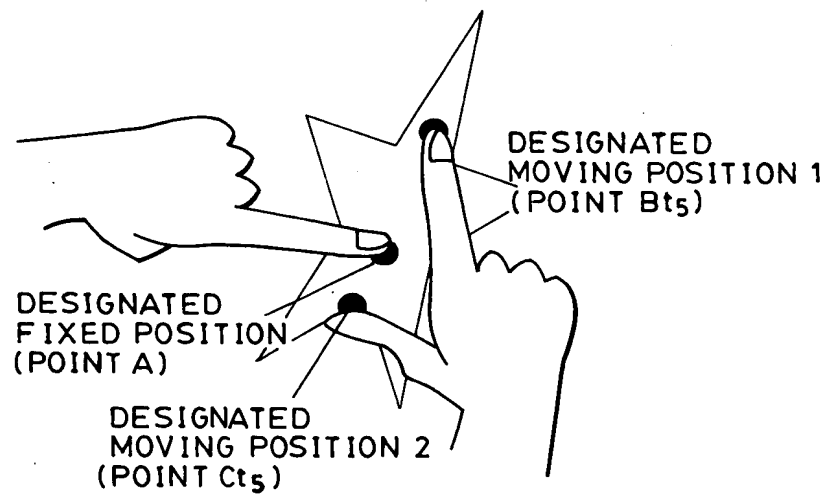
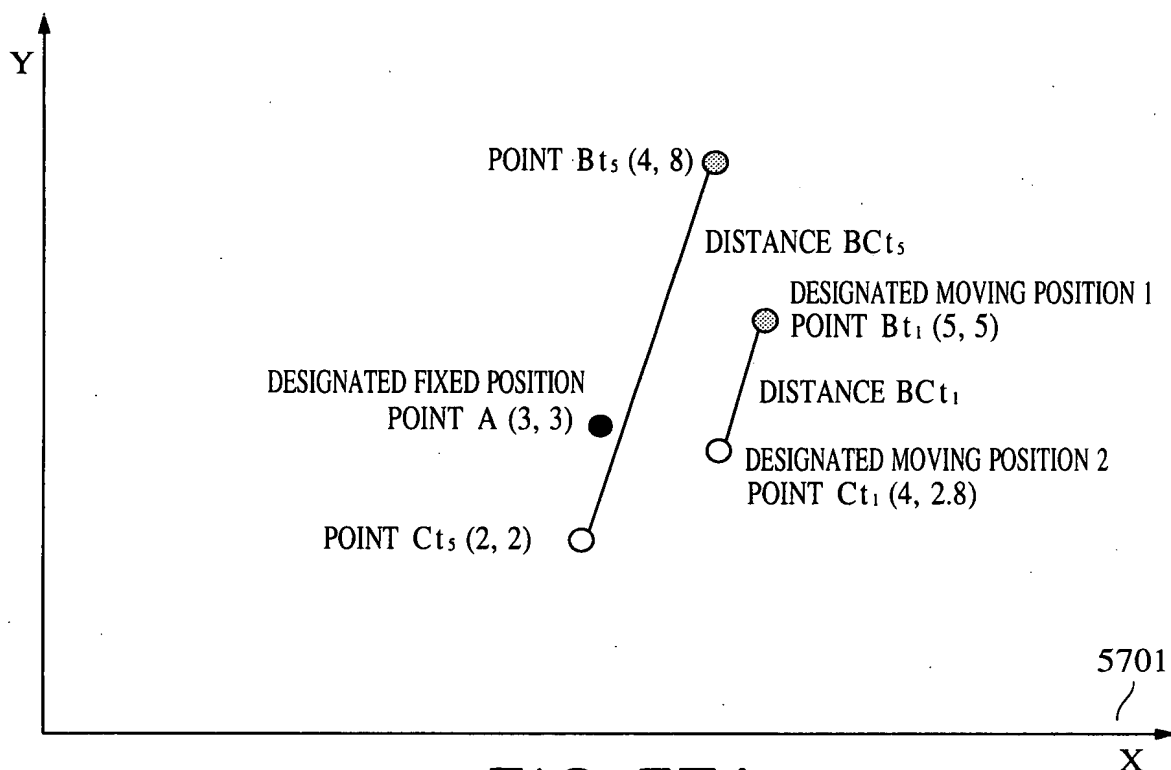


FIG. 56B



DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>X</sub>	A <sub>Y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 57B

DESIGNATED MOVING POSITION 1  
POSITION DATA OF POINT B

	B <sub>X</sub>	B <sub>Y</sub>
t <sub>1</sub>	5.0	5.0
t <sub>2</sub>	4.7	5.8
t <sub>3</sub>	4.4	6.3
t <sub>4</sub>	4.2	7.2
t <sub>5</sub>	4.0	8.0

FIG. 57C

DESIGNATED MOVING POSITION 2  
POSITION DATA OF POINT C

	C <sub>X</sub>	C <sub>Y</sub>
t <sub>1</sub>	4.0	2.8
t <sub>2</sub>	3.8	2.6
t <sub>3</sub>	3.4	2.4
t <sub>4</sub>	2.8	2.2
t <sub>5</sub>	2.0	2.0

FIG. 57D

DATA OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t <sub>n</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	2.417	100%
t <sub>2</sub>	3.324	138%
t <sub>3</sub>	4.026	167%
t <sub>4</sub>	5.192	215%
t <sub>5</sub>	6.325	262%

FIG. 57E

DESIGNATING A PLURALITY OF MOVING POINTS

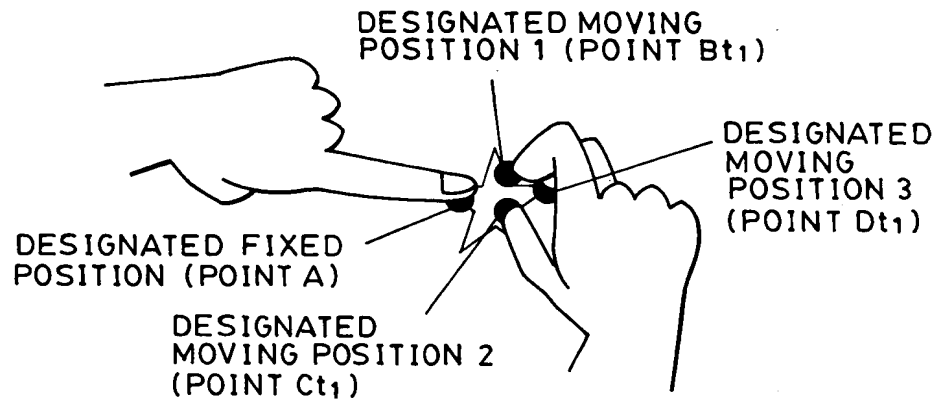


FIG. 58A

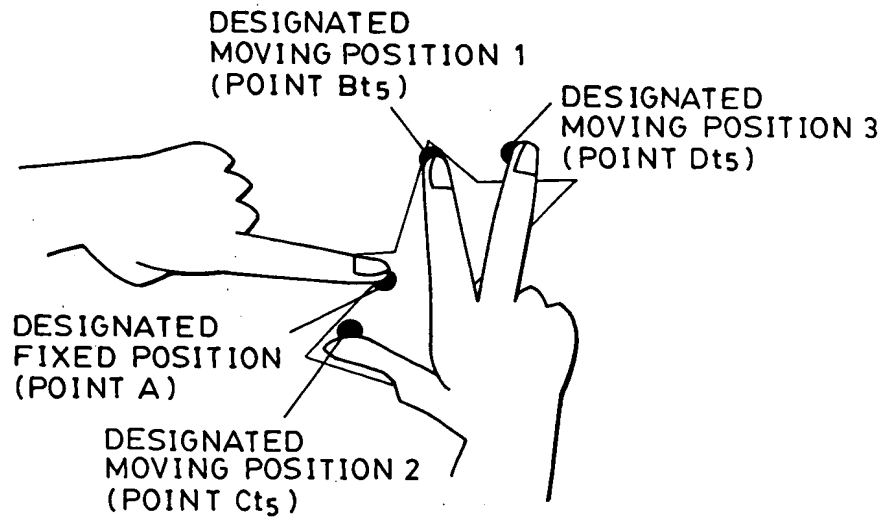


FIG. 58B

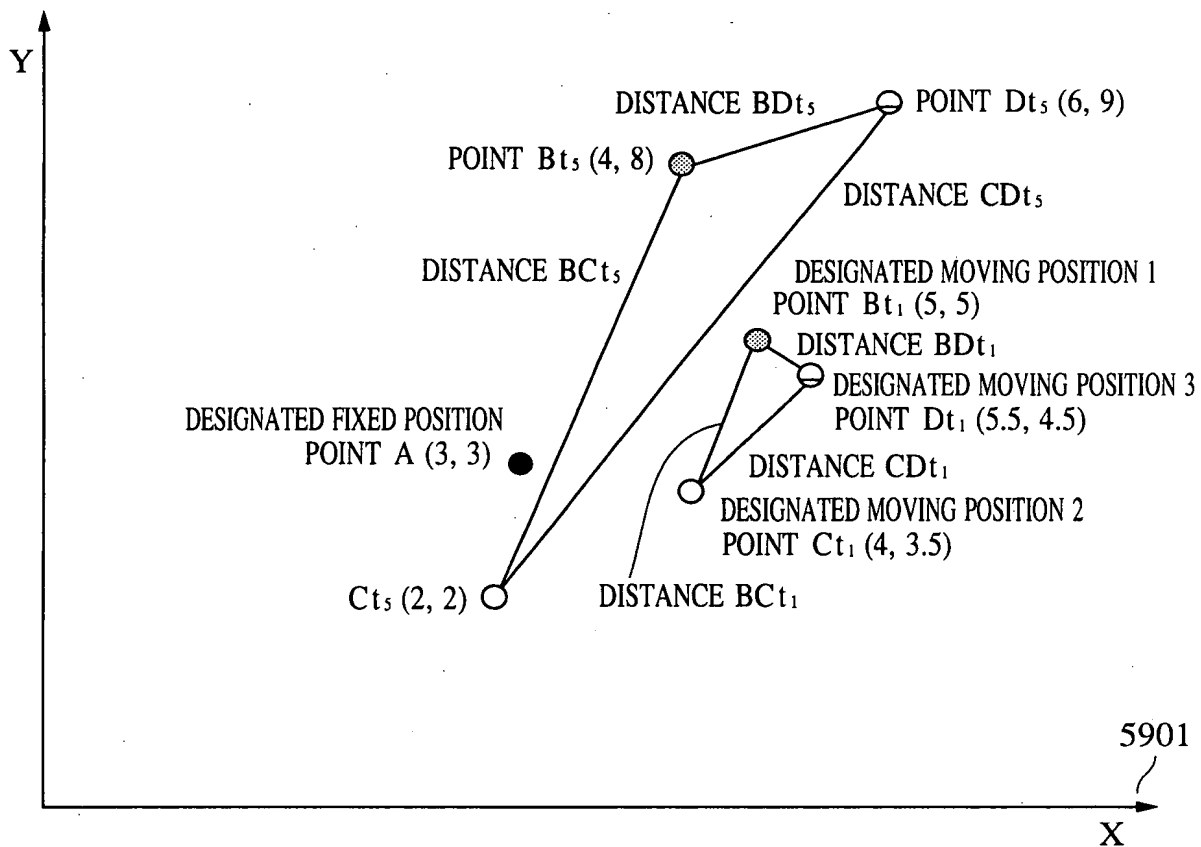


FIG. 59A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	5.0	5.0
t <sub>2</sub>	4.7	5.8
t <sub>3</sub>	4.4	6.3
t <sub>4</sub>	4.2	7.2
t <sub>5</sub>	4.0	8.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	4.0	3.5
t <sub>2</sub>	3.8	3.3
t <sub>3</sub>	3.4	2.8
t <sub>4</sub>	2.8	2.3
t <sub>5</sub>	2.0	2.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT D

	D <sub>x</sub>	D <sub>y</sub>
t <sub>1</sub>	5.5	4.5
t <sub>2</sub>	5.6	6.0
t <sub>3</sub>	5.8	7.0
t <sub>4</sub>	5.9	8.0
t <sub>5</sub>	6.0	9.0

5902

FIG. 59B

FIG. 59C

FIG. 59D

FIG. 59E

DATA 1 OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.803	100%
t <sub>2</sub>	2.657	147%
t <sub>3</sub>	3.640	202%
t <sub>4</sub>	5.096	283%
t <sub>5</sub>	6.325	351%

DATA 2 OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND D	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	0.707	100%
t <sub>2</sub>	0.922	130%
t <sub>3</sub>	1.565	221%
t <sub>4</sub>	1.879	266%
t <sub>5</sub>	2.236	316%

DATA 3 OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN C AND D	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.803	100%
t <sub>2</sub>	3.245	180%
t <sub>3</sub>	4.837	268%
t <sub>4</sub>	6.488	360%
t <sub>5</sub>	8.062	447%

5903

FIG. 59F

FIG. 59G

FIG. 59H

FIG. 60

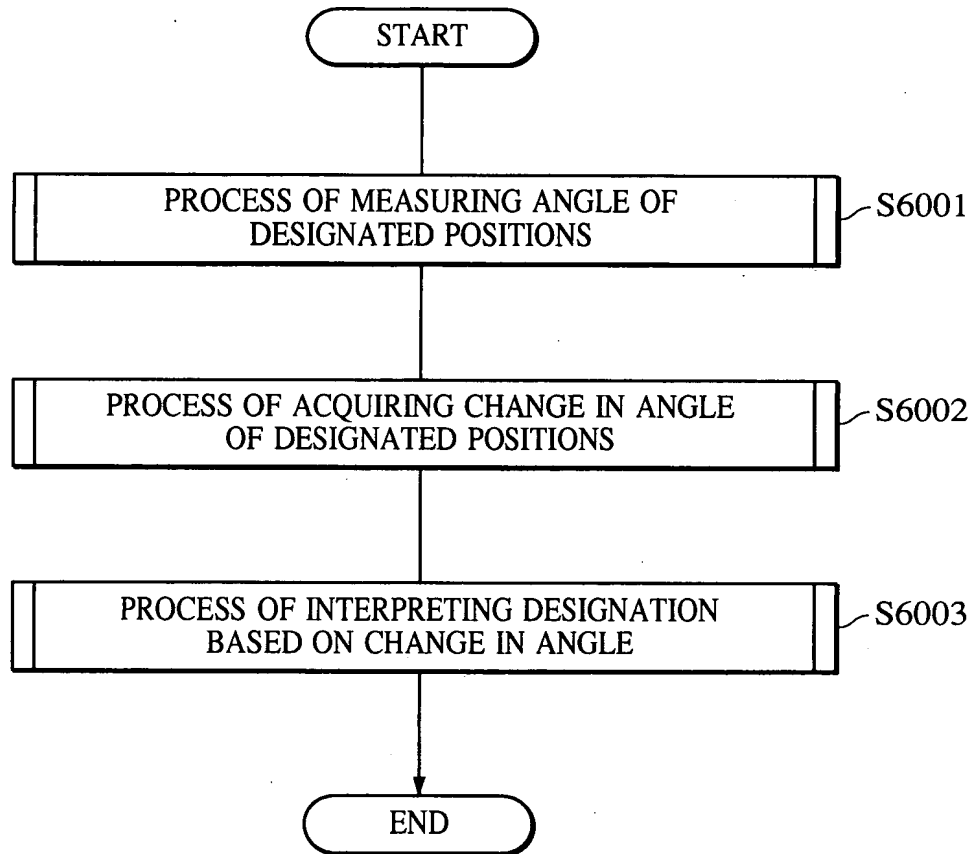


FIG. 60

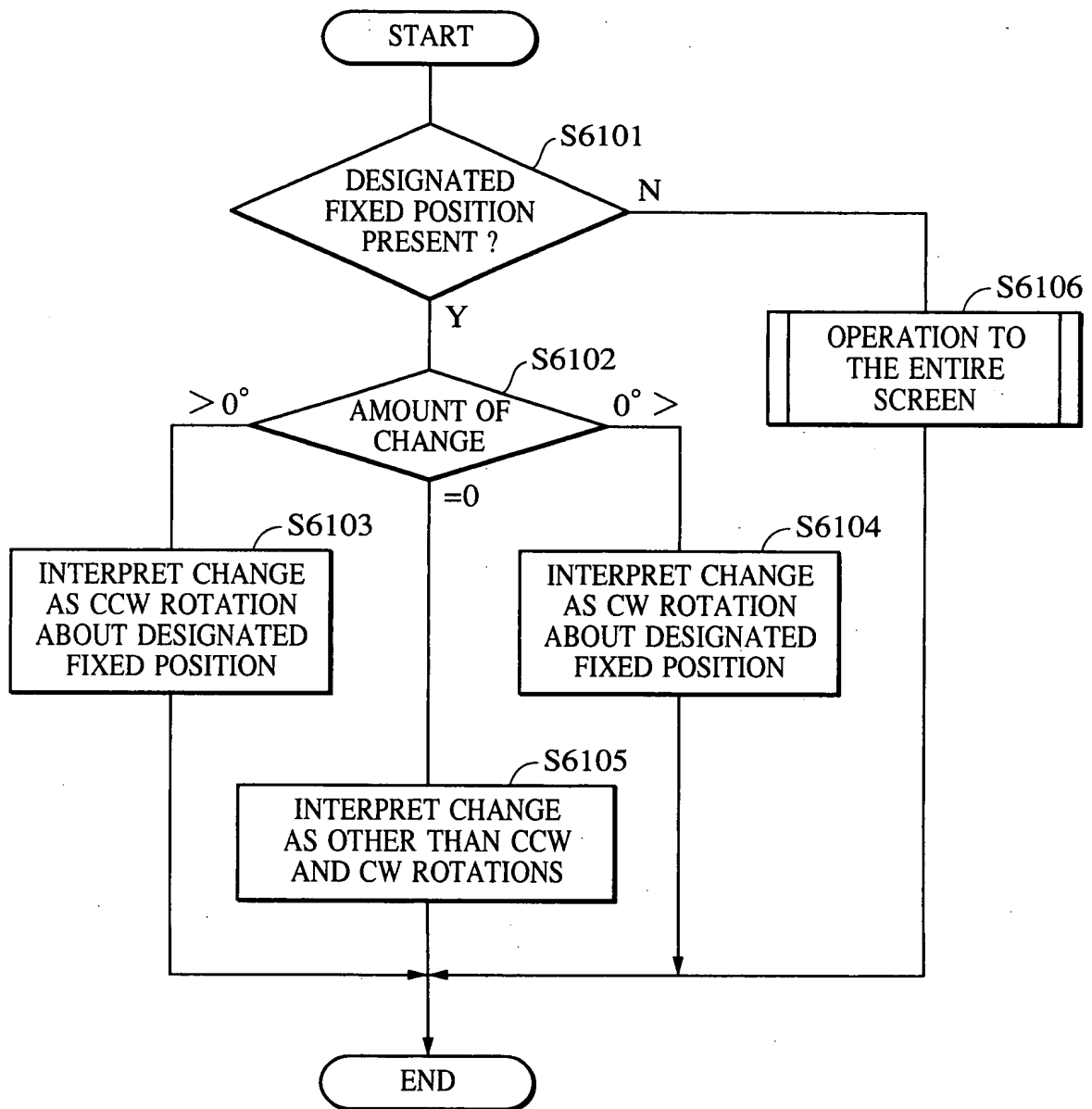


FIG. 61

CW ROTATION OPERATION

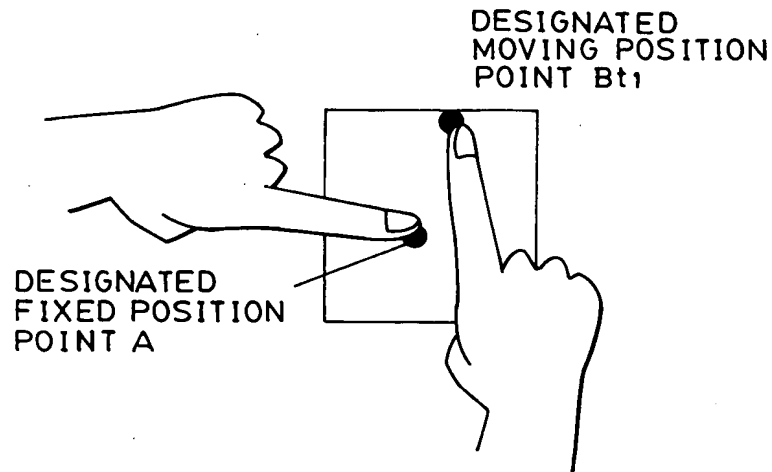


FIG. 62A

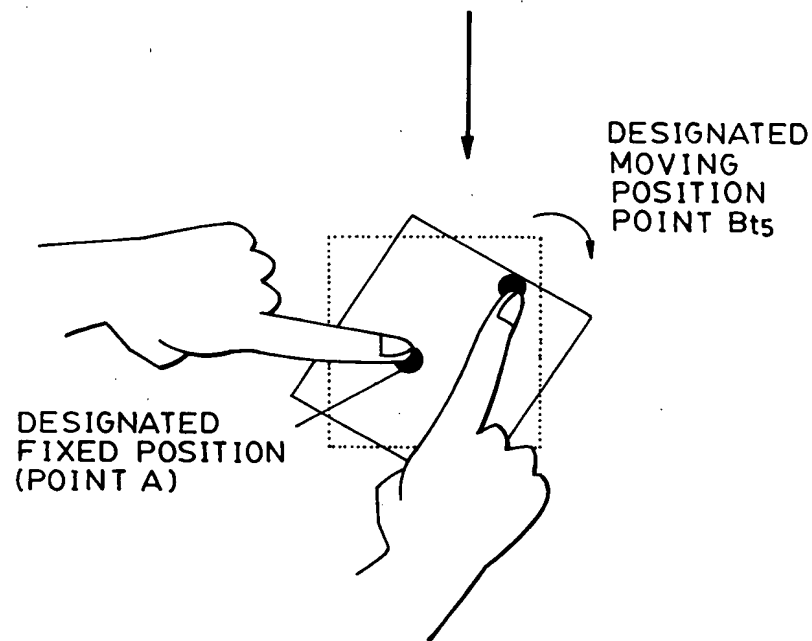


FIG. 62B



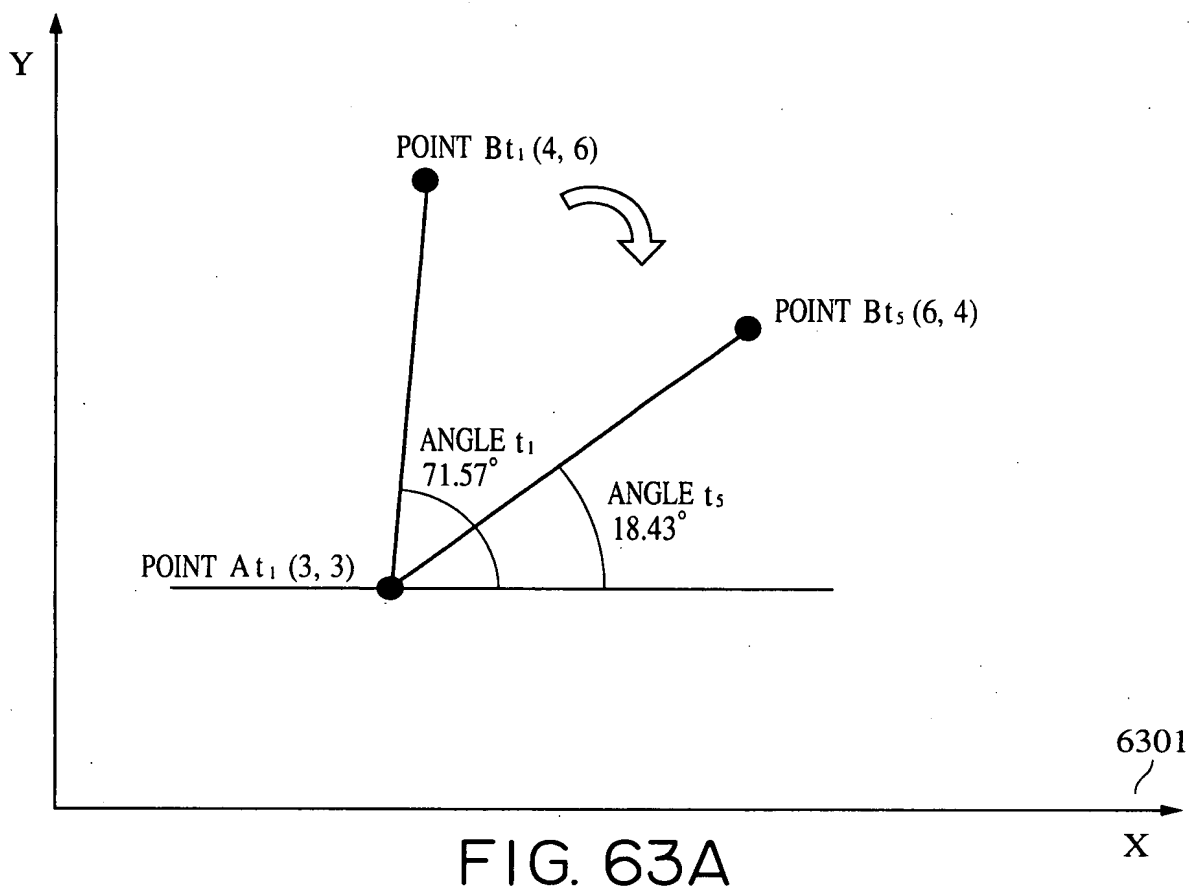


FIG. 63A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 63B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	6.0
t <sub>2</sub>	4.7	5.7
t <sub>3</sub>	5.2	5.3
t <sub>4</sub>	5.7	4.6
t <sub>5</sub>	6.0	4.0

FIG. 63C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS	AMOUNT OF CHANGE
t <sub>1</sub>	71.57	0.00
t <sub>2</sub>	57.57	-14.00
t <sub>3</sub>	45.91	-25.66
t <sub>4</sub>	30.67	-40.90
t <sub>5</sub>	18.43	-53.13

FIG. 63D

CCW ROTATION OPERATION

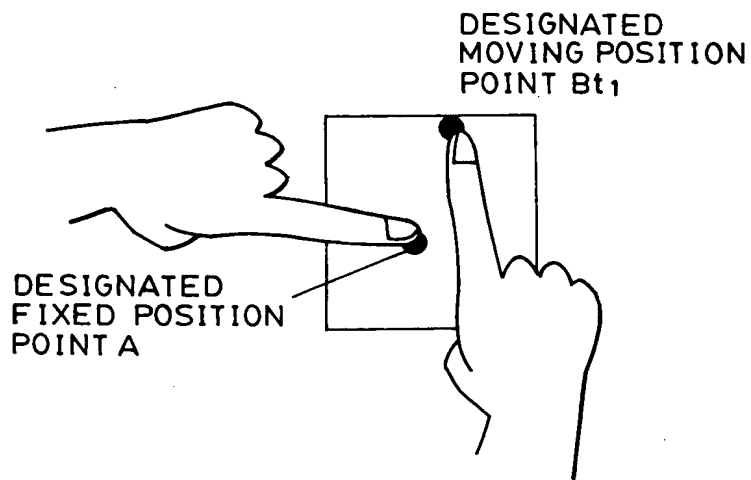


FIG. 64A

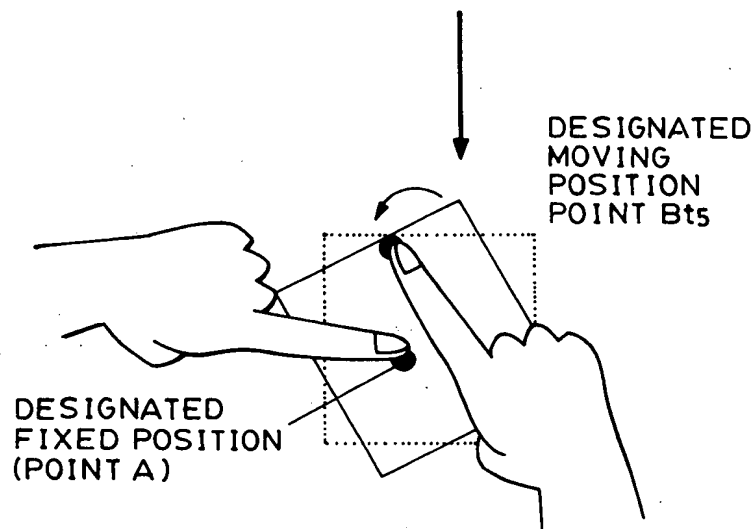


FIG. 64B

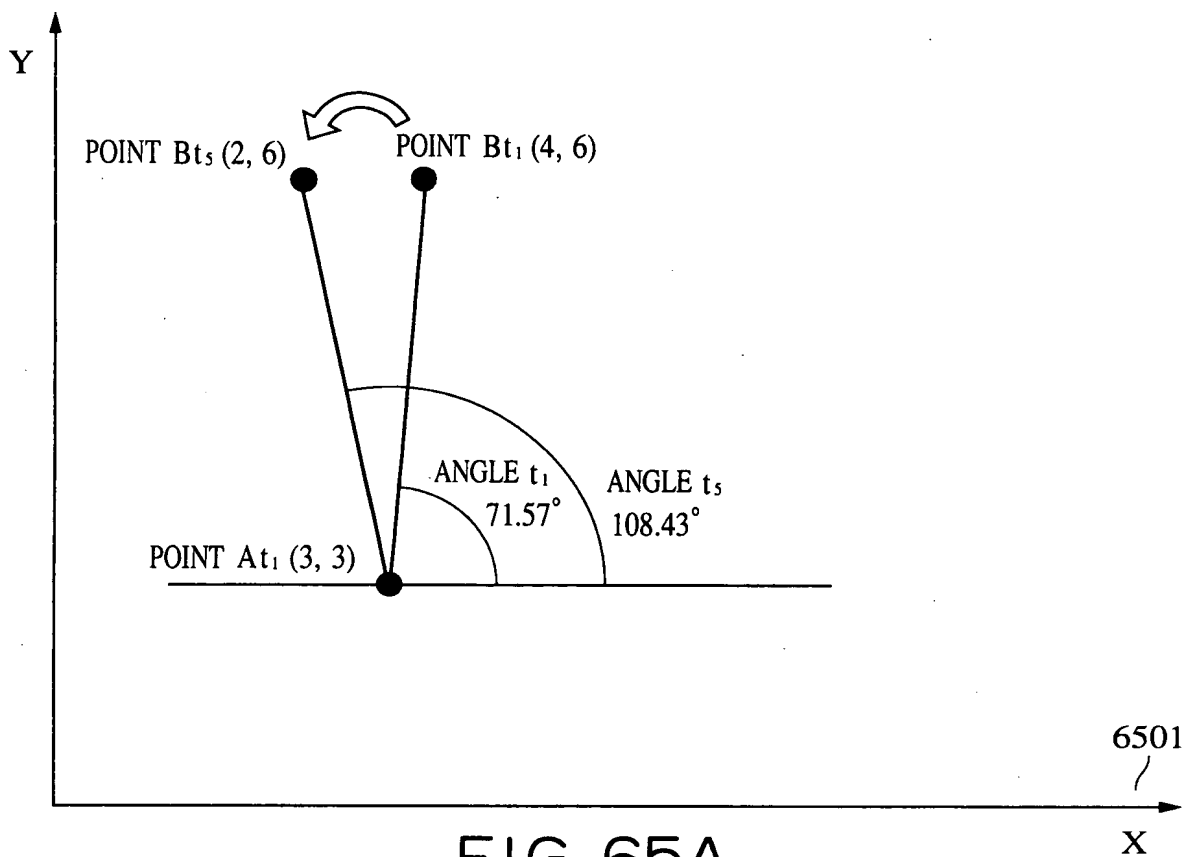


FIG. 65A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

6502A

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	6.0
t <sub>2</sub>	3.5	6.1
t <sub>3</sub>	3.0	6.2
t <sub>4</sub>	2.5	6.1
t <sub>5</sub>	2.0	6.0

6502B

FIG. 65B

FIG. 65C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED FIXED POSITIONS	AMOUNT OF CHANGE
t <sub>1</sub>	71.57	0.00
t <sub>2</sub>	80.90	9.34
t <sub>3</sub>	90.00	18.43
t <sub>4</sub>	99.10	27.53
t <sub>5</sub>	108.43	36.87

6503

FIG. 65D

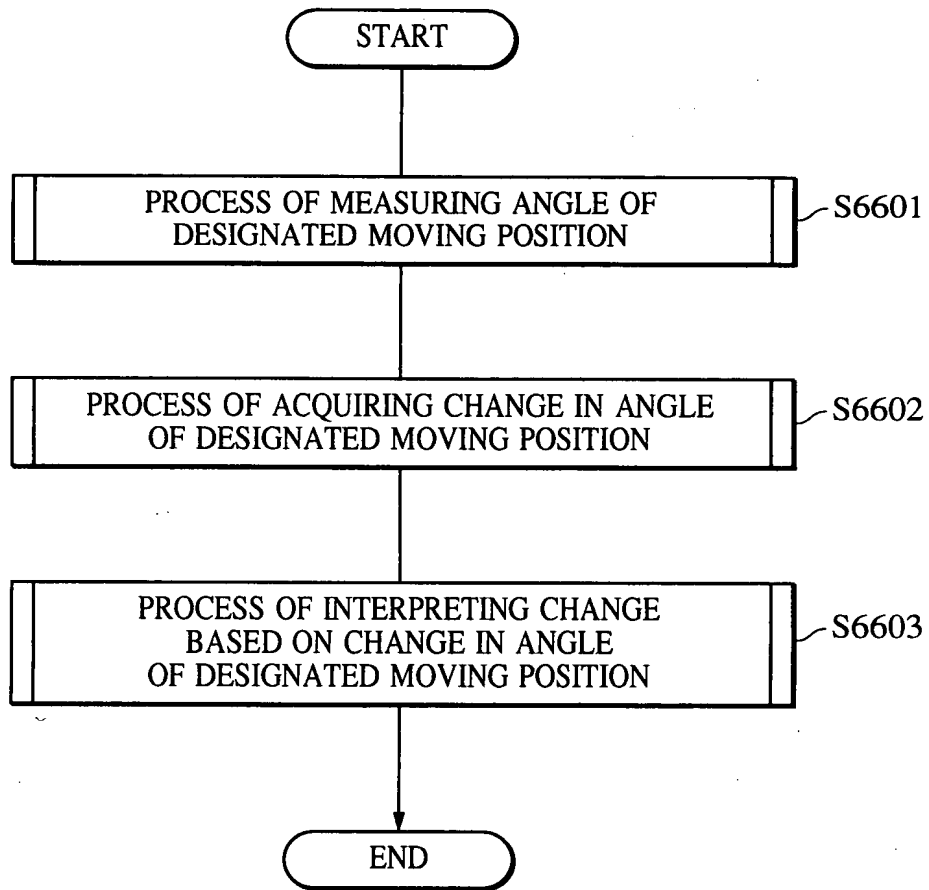


FIG. 66

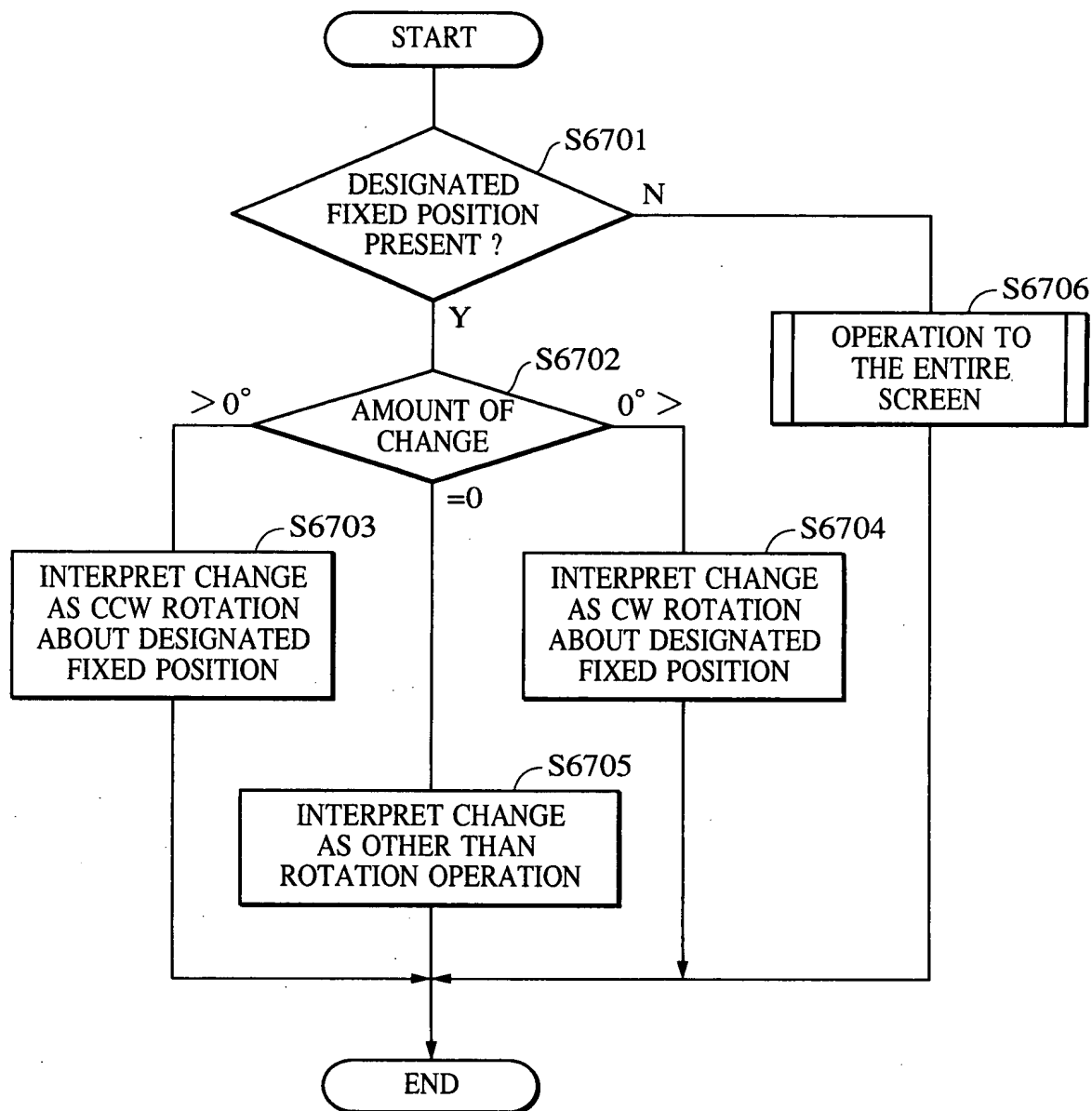


FIG. 67

CW ROTATION OPERATION

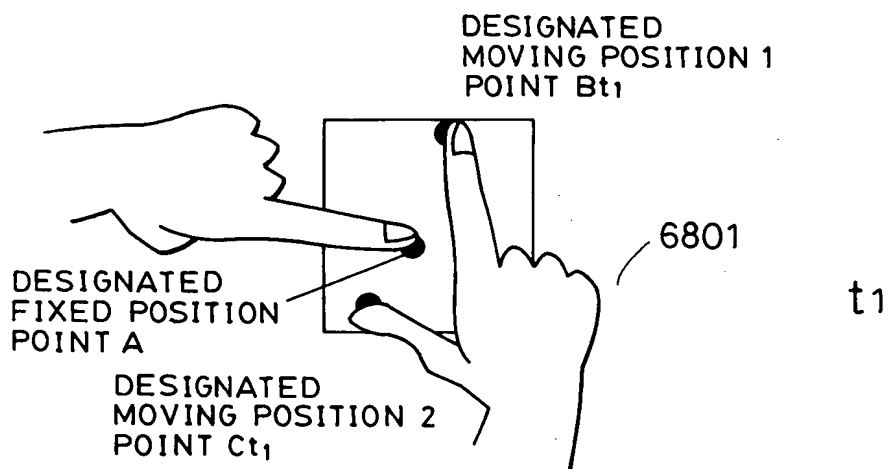


FIG. 68A

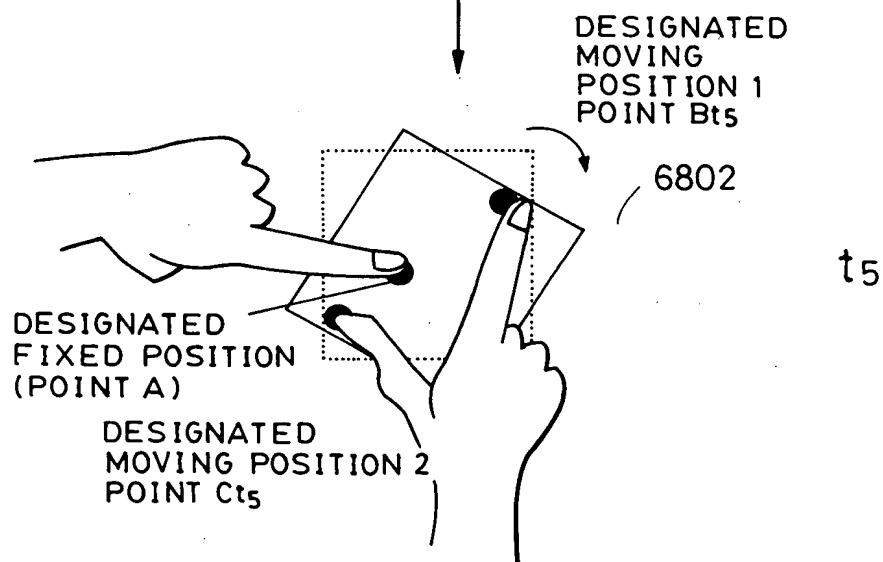


FIG. 68B

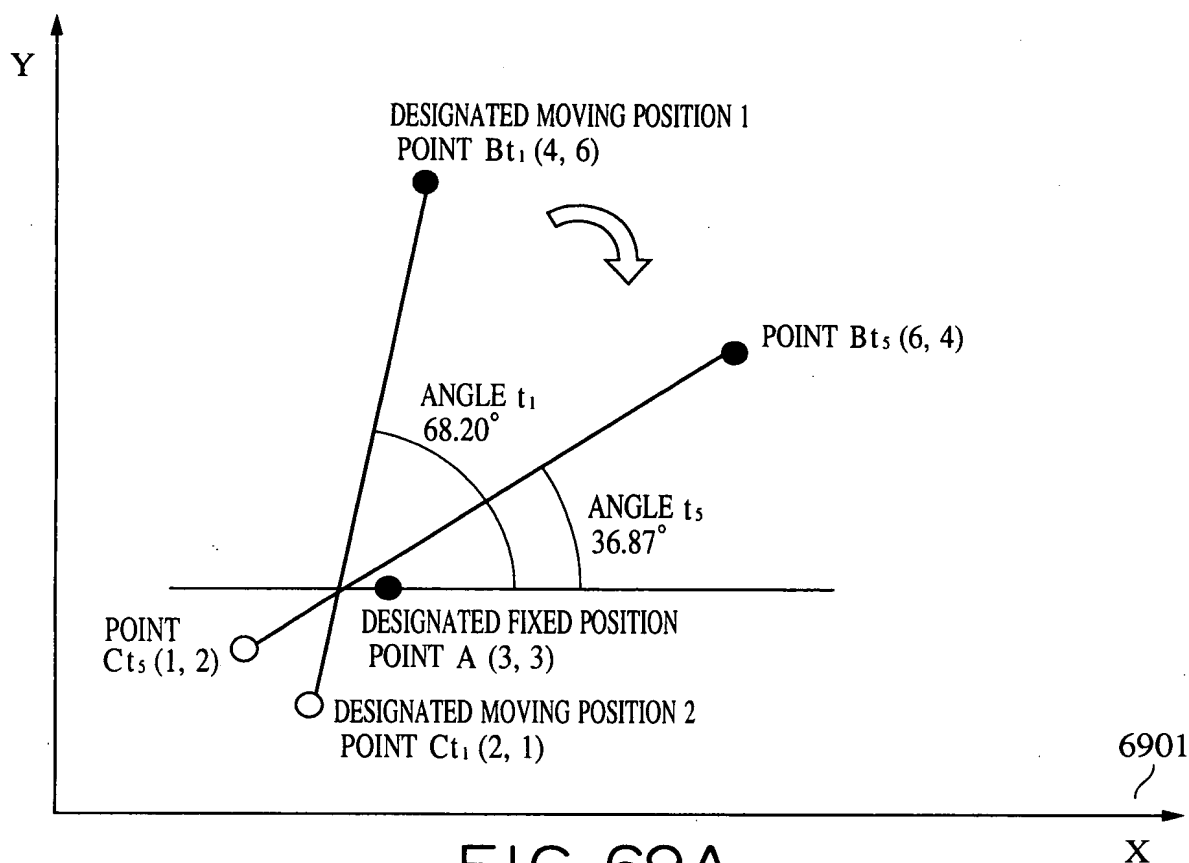


FIG. 69A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 69B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	6.0
t <sub>2</sub>	4.5	5.5
t <sub>3</sub>	5.0	5.0
t <sub>4</sub>	5.5	4.5
t <sub>5</sub>	6.0	4.0

FIG. 69C

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	2	1
t <sub>2</sub>	1.8	1.2
t <sub>3</sub>	1.6	1.5
t <sub>4</sub>	1.4	1.8
t <sub>5</sub>	1	2

FIG. 69D

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
t <sub>1</sub>	68.20	0.00
t <sub>2</sub>	60.95	-7.25
t <sub>3</sub>	53.13	-15.07
t <sub>4</sub>	45.00	-23.20
t <sub>5</sub>	36.87	-31.33

FIG. 69E

CCW ROTATION OPERATION

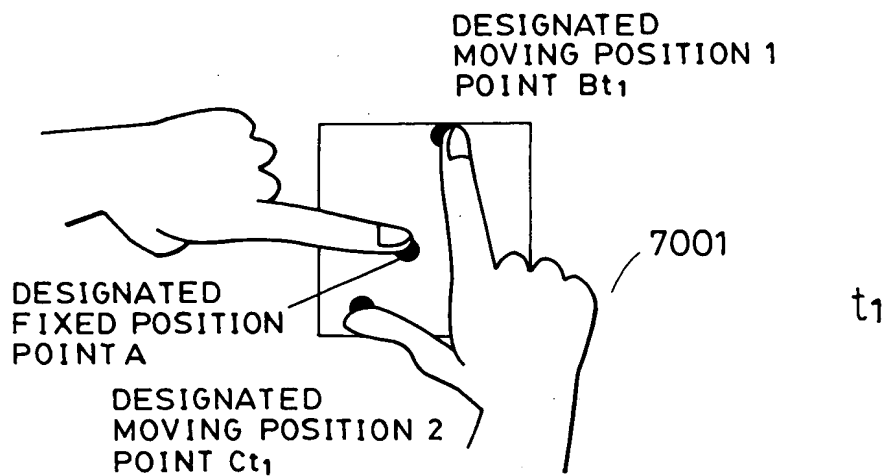


FIG. 70A

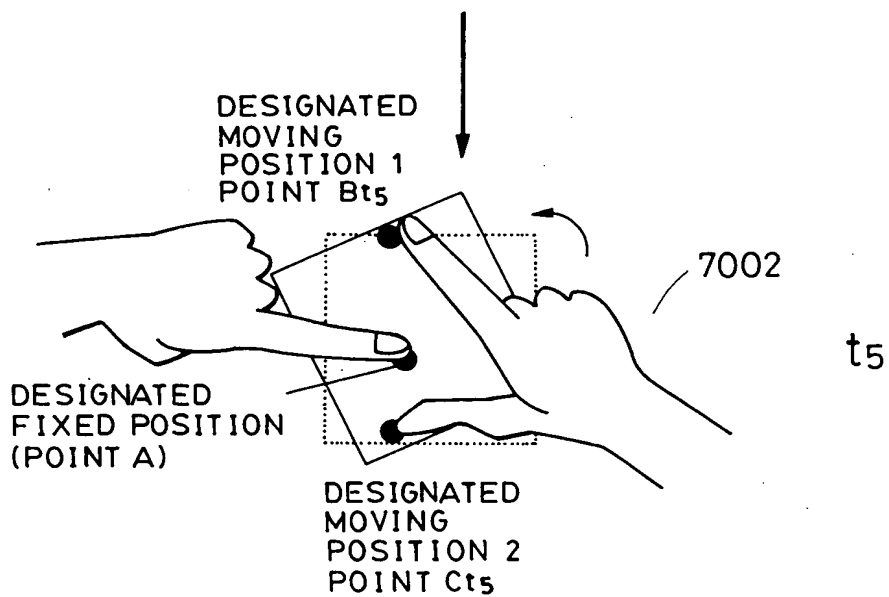


FIG. 70B



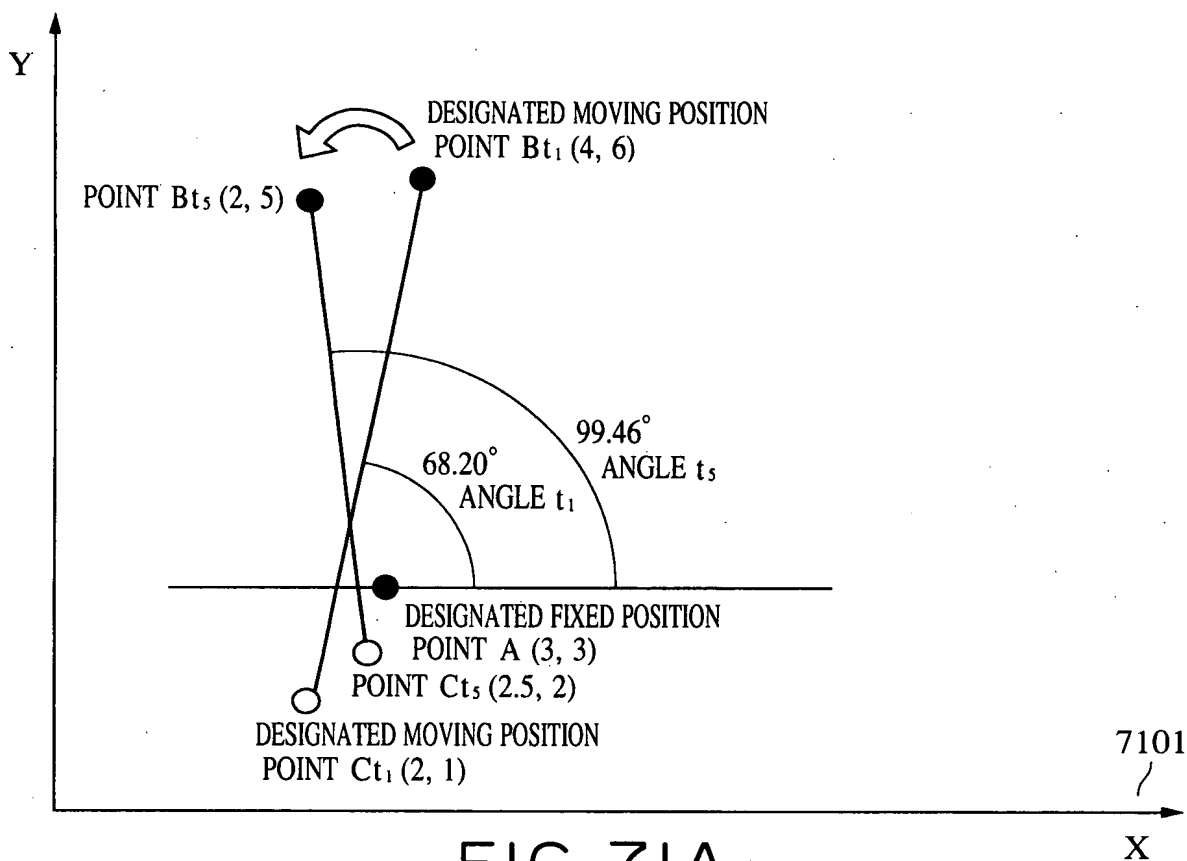


FIG. 71A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	3	3
$t_2$	3	3
$t_3$	3	3
$t_4$	3	3
$t_5$	3	3

FIG. 71B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	4.0	6.0
$t_2$	3.5	5.8
$t_3$	3.0	5.4
$t_4$	2.5	5.2
$t_5$	2.0	5.0

FIG. 71C

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	$C_x$	$C_y$
$t_1$	2	1
$t_2$	2.1	1.2
$t_3$	2.3	1.5
$t_4$	2.4	1.8
$t_5$	2.5	2

FIG. 71D

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
$t_1$	68.20	0.00
$t_2$	73.07	4.87
$t_3$	79.82	11.63
$t_4$	88.32	20.12
$t_5$	99.46	31.26

FIG. 71E

ROTATION OPERATION ABOUT THE CENTER OF GRAVITY OF DESIGNATED MOVING POSITION

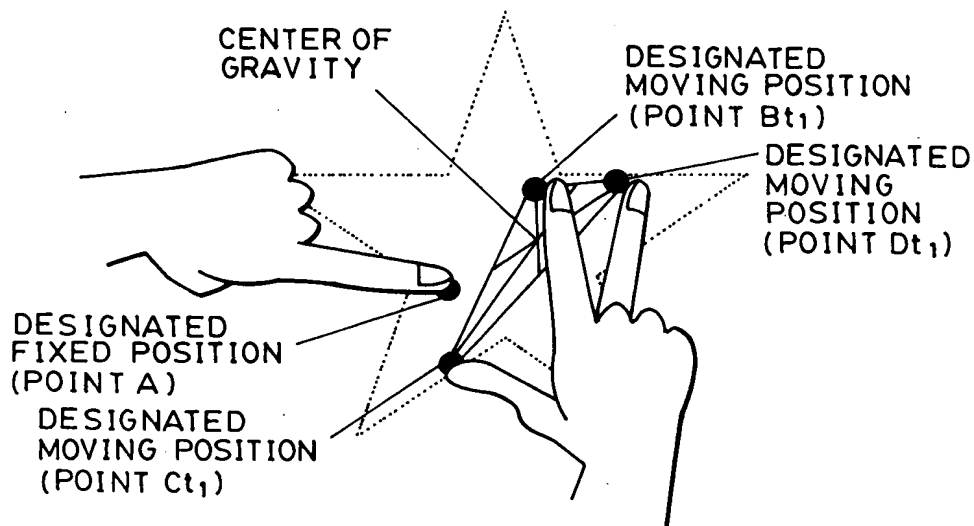


FIG. 72A

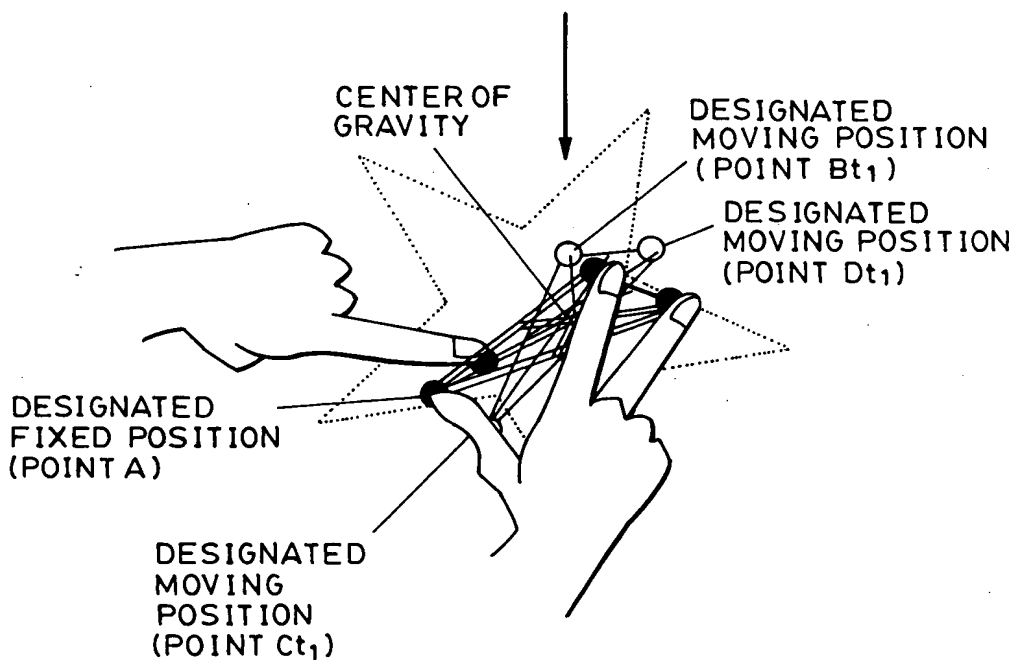


FIG. 72B

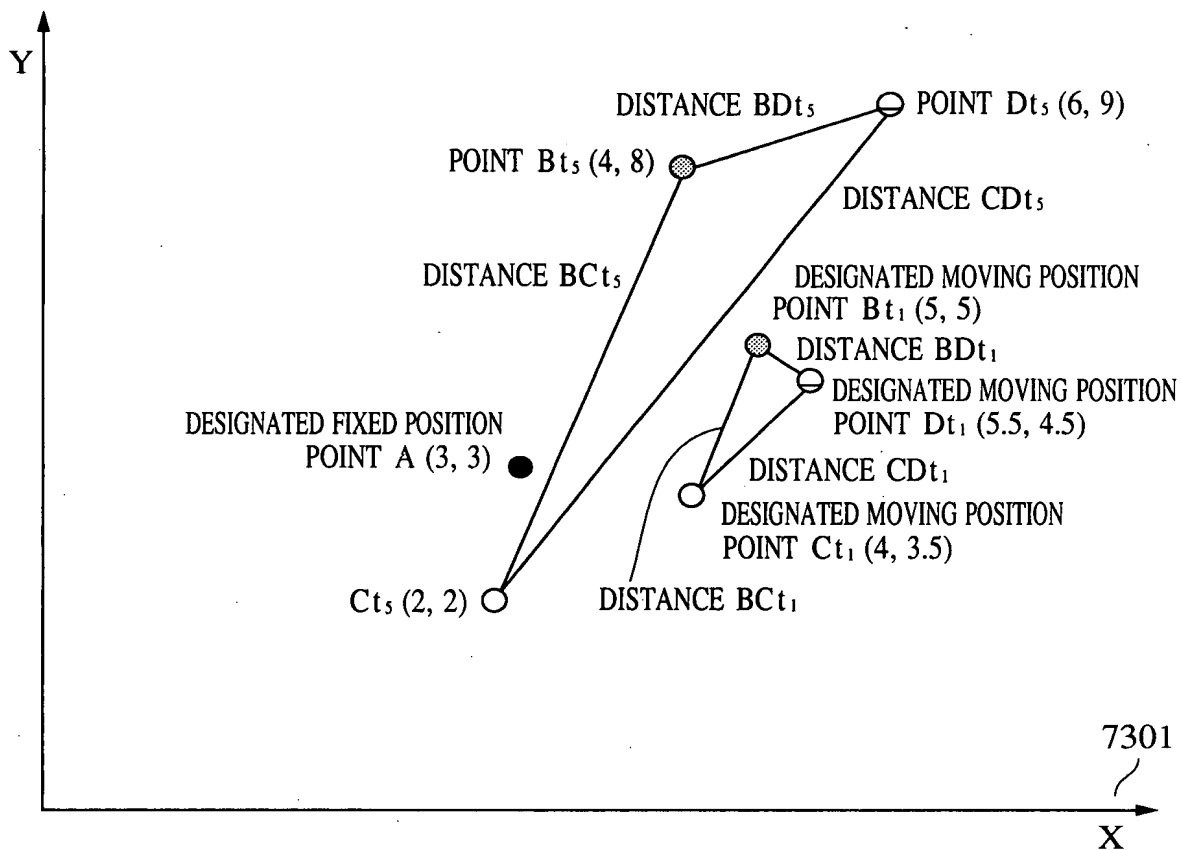


FIG. 73A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	5.0	5.0
t <sub>2</sub>	4.7	5.8
t <sub>3</sub>	4.4	6.3
t <sub>4</sub>	4.2	7.2
t <sub>5</sub>	4.0	8.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	4.0	3.5
t <sub>2</sub>	3.8	3.3
t <sub>3</sub>	3.4	2.8
t <sub>4</sub>	2.8	2.3
t <sub>5</sub>	2.0	2.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT D

	D <sub>x</sub>	D <sub>y</sub>
t <sub>1</sub>	5.5	4.5
t <sub>2</sub>	5.6	6.0
t <sub>3</sub>	5.8	7.0
t <sub>4</sub>	5.9	8.0
t <sub>5</sub>	6.0	9.0

7302

FIG. 73B

FIG. 73C

FIG. 73D

FIG. 73E

DATA OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.803	100%
t <sub>2</sub>	2.657	147%
t <sub>3</sub>	3.640	202%
t <sub>4</sub>	5.096	283%
t <sub>5</sub>	6.325	351%

DATA OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND D	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	0.707	100%
t <sub>2</sub>	0.922	130%
t <sub>3</sub>	1.565	221%
t <sub>4</sub>	1.879	266%
t <sub>5</sub>	2.236	316%

DATA OF CHANGE IN DESIGNATED  
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN C AND D	MAGNIFICATION (DISTANCE t <sub>a</sub> / DISTANCE t <sub>1</sub> )
t <sub>1</sub>	1.803	100%
t <sub>2</sub>	3.245	180%
t <sub>3</sub>	4.837	268%
t <sub>4</sub>	6.488	360%
t <sub>5</sub>	8.062	447%

7303

FIG. 73F

FIG. 73G

FIG. 73H

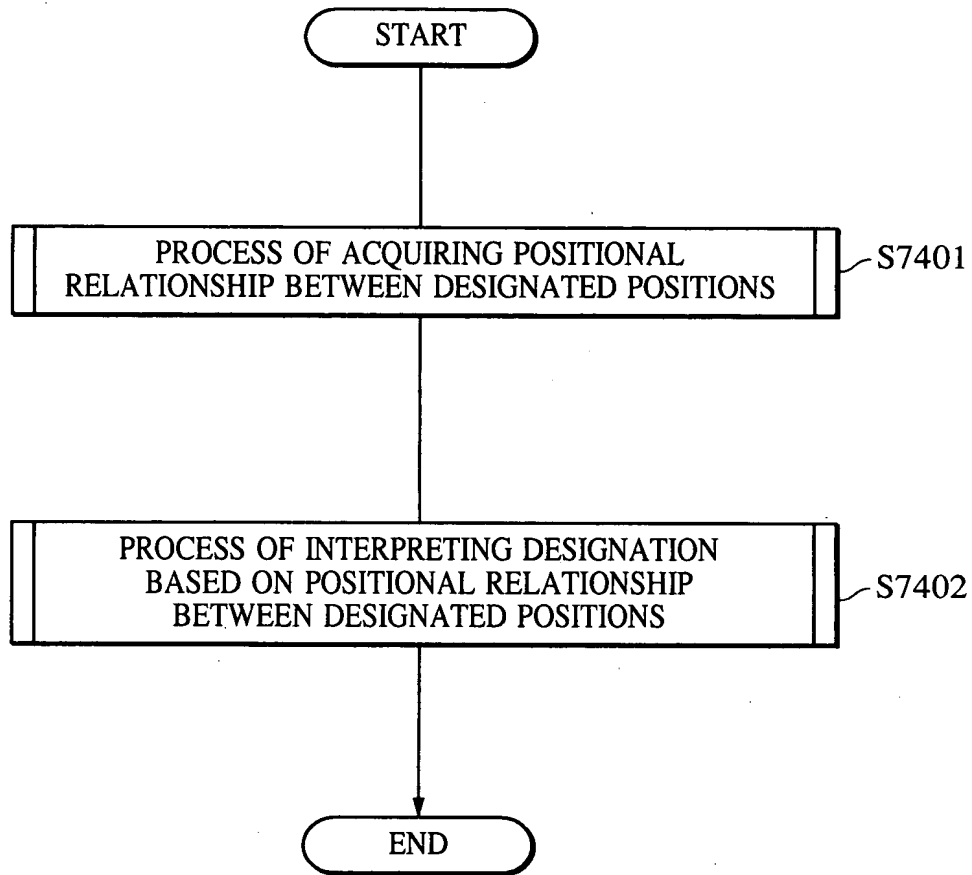


FIG. 74

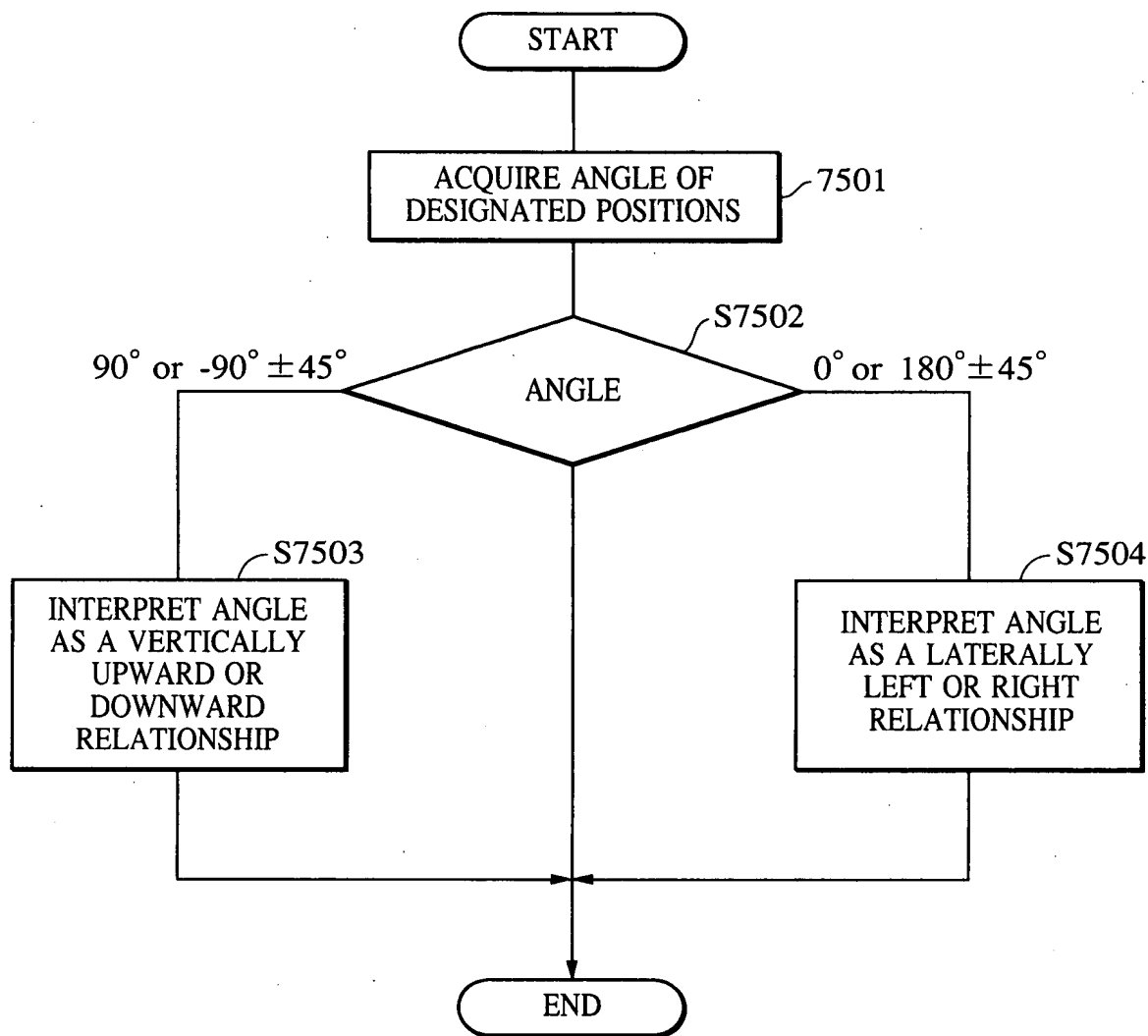


FIG. 75

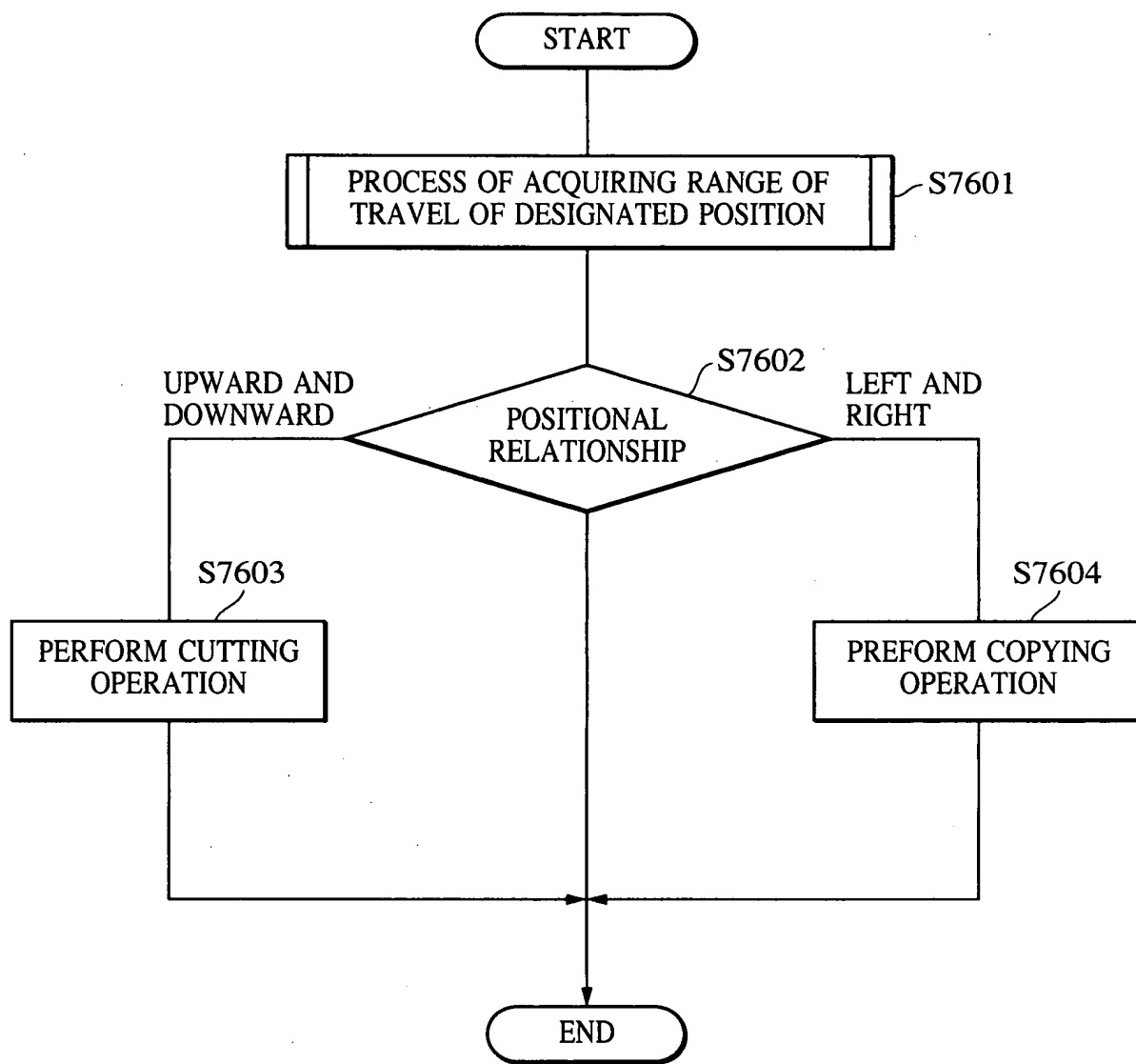


FIG. 76

PARALLEL TRAVEL WITH VERTICAL  
RELATIONSHIP MAINTAINED

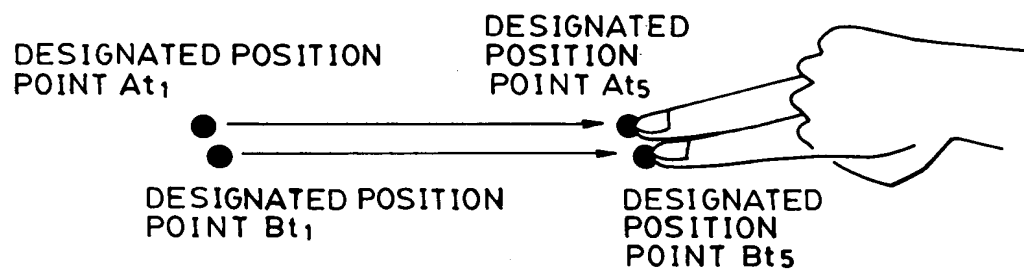


FIG. 77



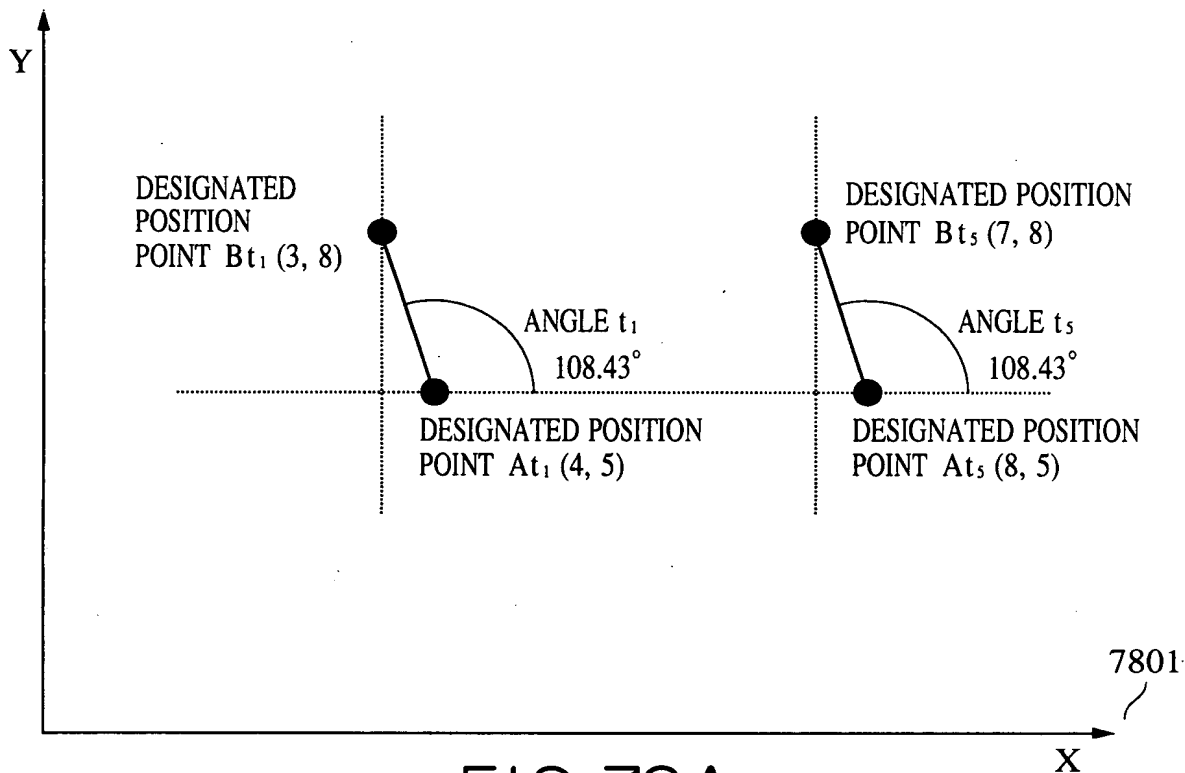


FIG. 78A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	4.0	5.0
t <sub>2</sub>	5.0	5.0
t <sub>3</sub>	6.0	5.0
t <sub>4</sub>	7.0	5.0
t <sub>5</sub>	8.0	5.0

FIG. 78B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	3.0	8.0
t <sub>2</sub>	4.0	8.0
t <sub>3</sub>	5.0	8.0
t <sub>4</sub>	6.0	8.0
t <sub>5</sub>	7.0	8.0

FIG. 78C

POSITION DATA OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS
t <sub>1</sub>	108.43
t <sub>2</sub>	108.43
t <sub>3</sub>	108.43
t <sub>4</sub>	108.43
t <sub>5</sub>	108.43

FIG. 78D

PARALLEL TRAVEL WITH LATERAL  
RELATIONSHIP MAINTAINED

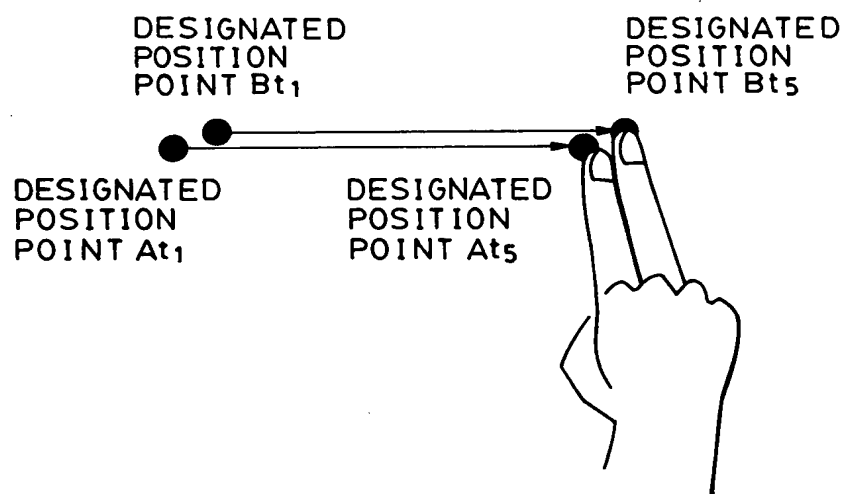


FIG. 79

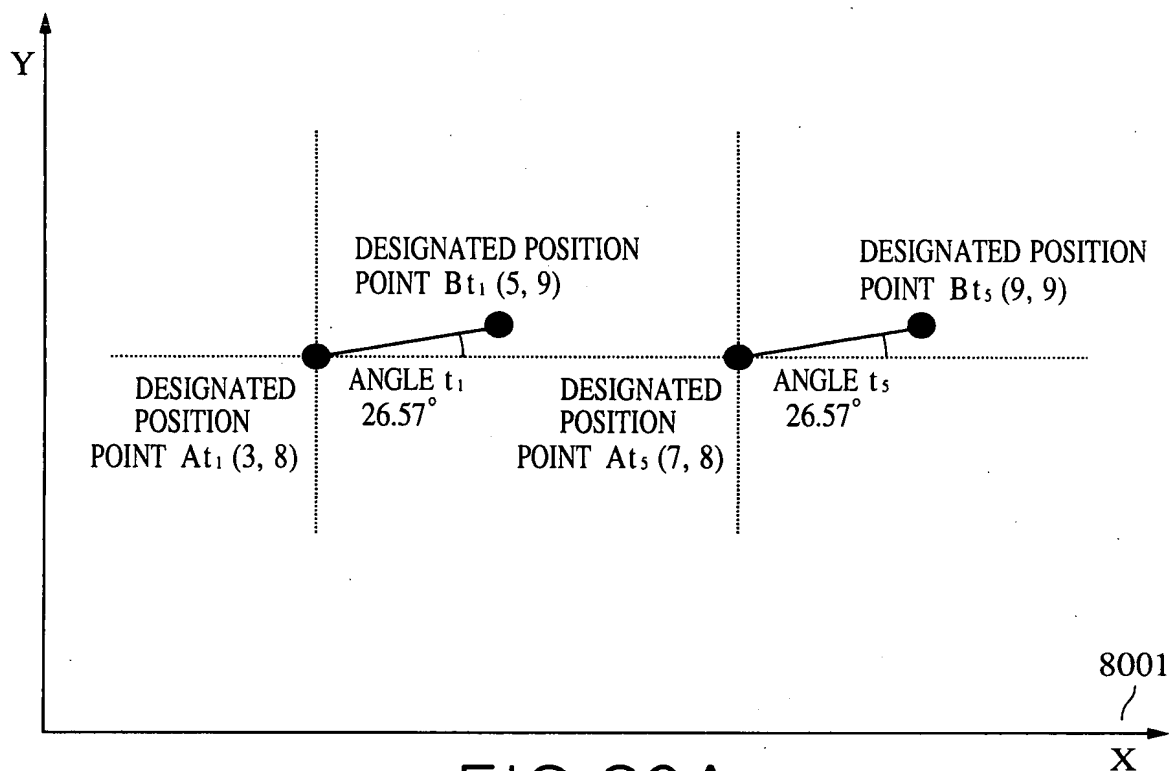


FIG. 80A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	3.0	8.0
$t_2$	4.0	8.0
$t_3$	5.0	8.0
$t_4$	6.0	8.0
$t_5$	7.0	8.0

FIG. 80B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	5.0	9.0
$t_2$	6.0	9.0
$t_3$	7.0	9.0
$t_4$	8.0	9.0
$t_5$	9.0	9.0

8002

FIG. 80C

POSITION DATA OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS
$t_1$	26.57
$t_2$	26.57
$t_3$	26.57
$t_4$	26.57
$t_5$	26.57

8003

FIG. 80D

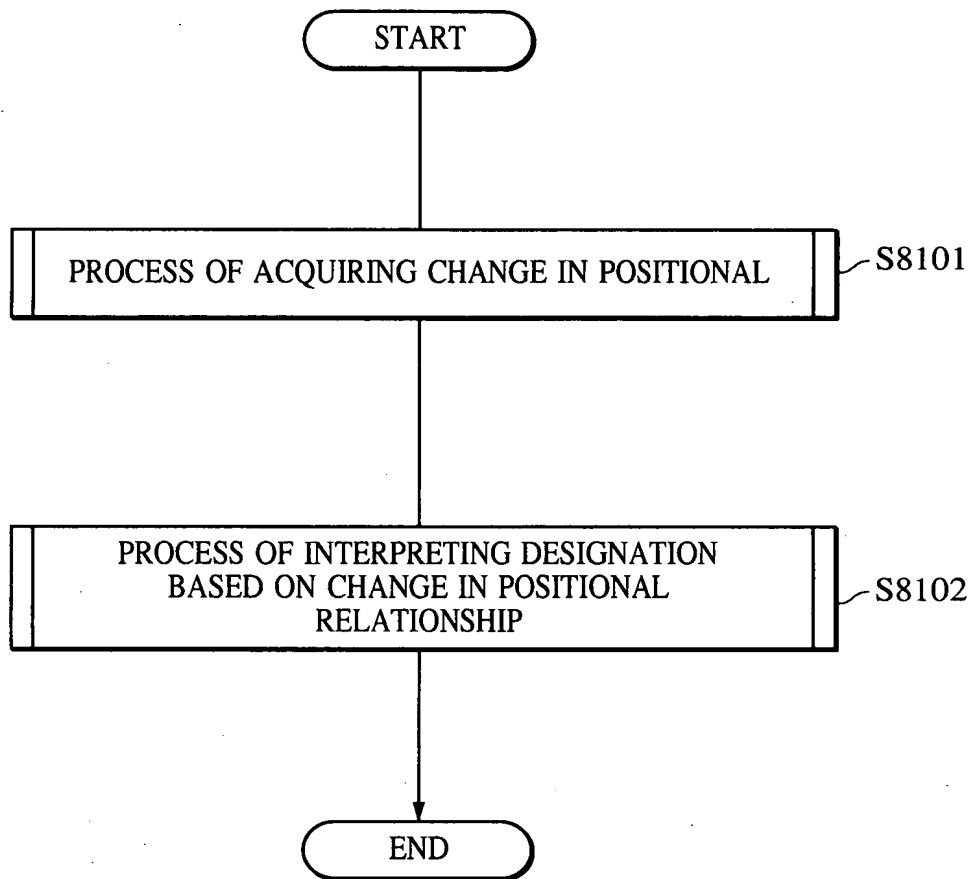


FIG. 81

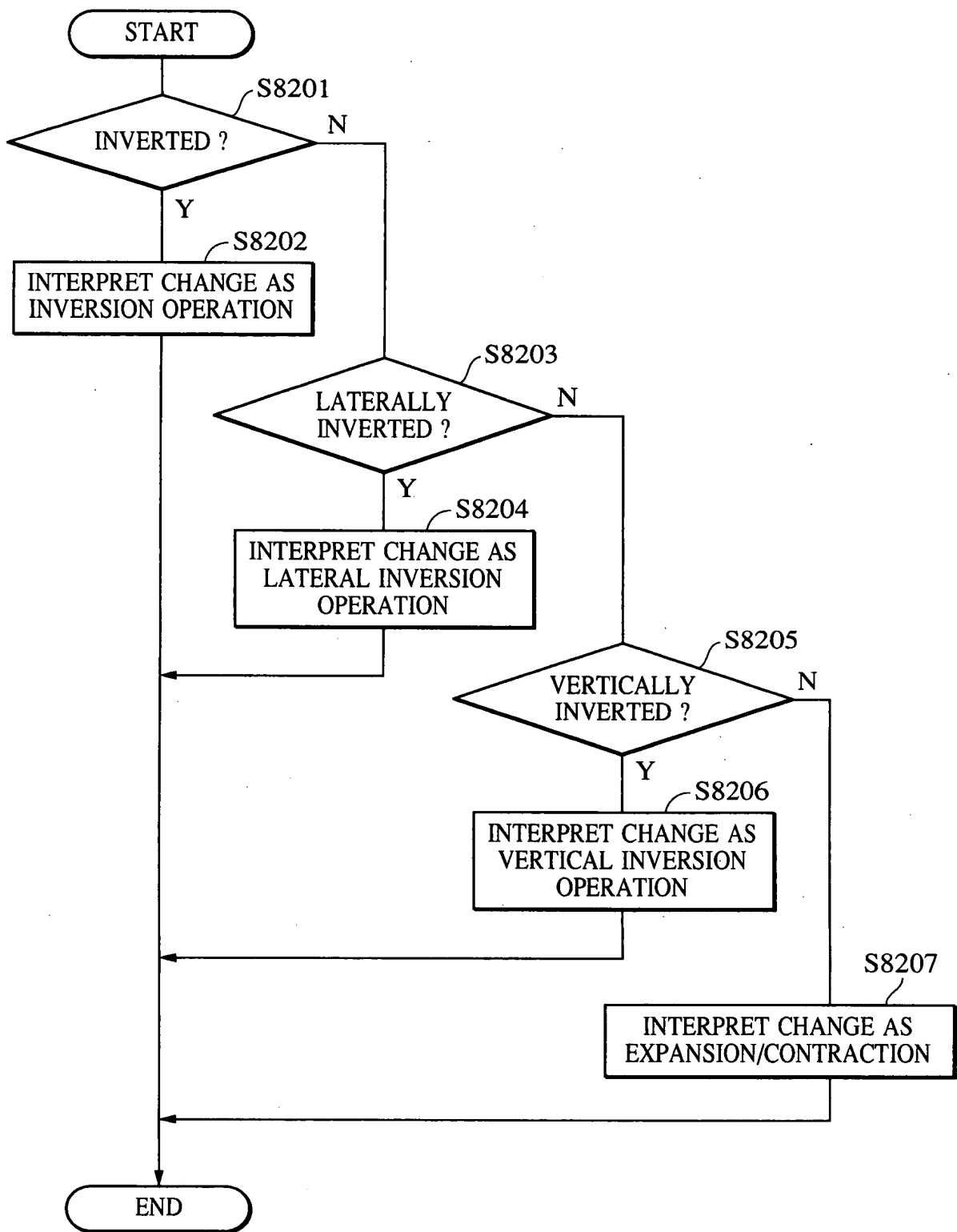


FIG. 82

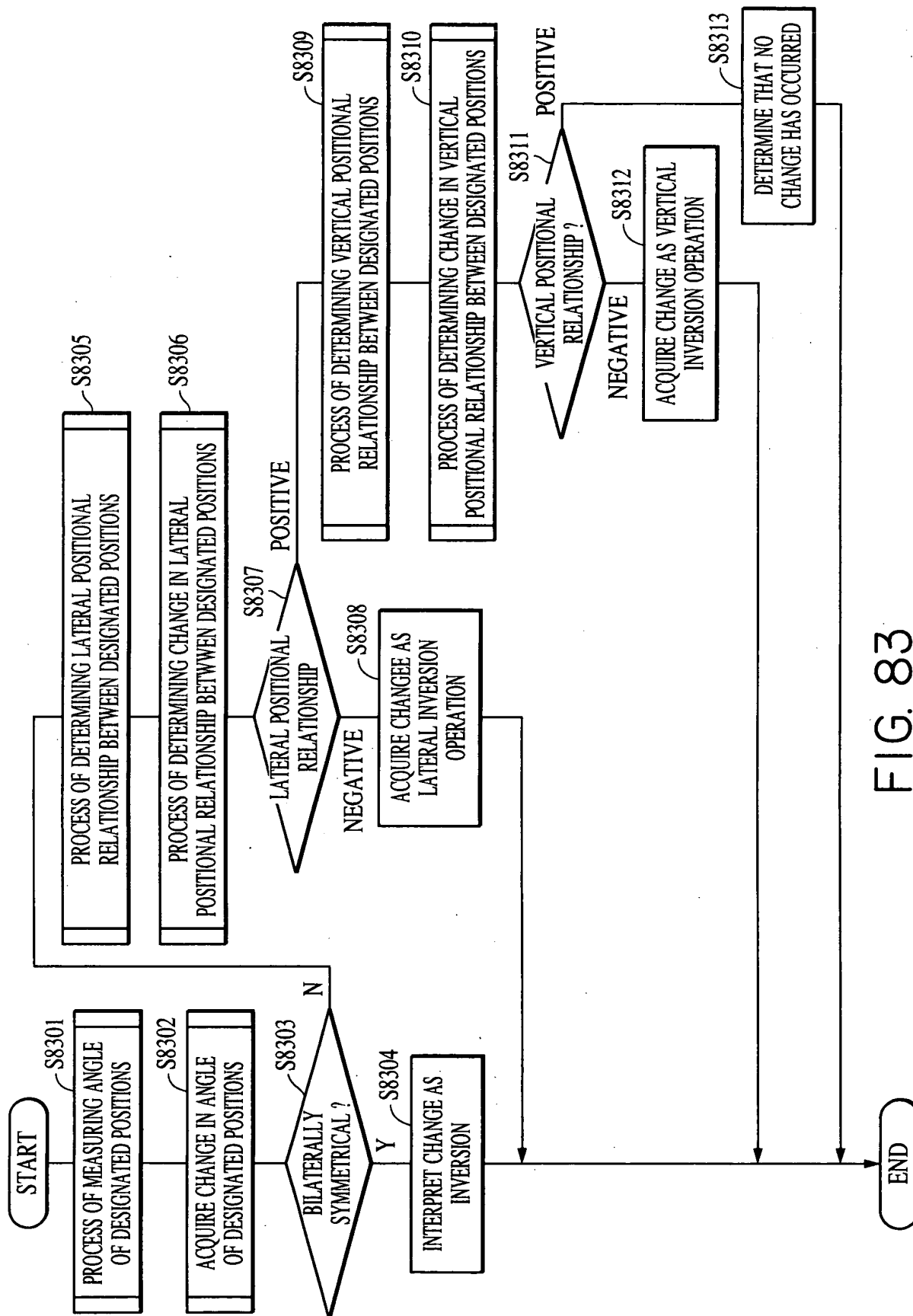


FIG. 83

REVERSAL OPERATION

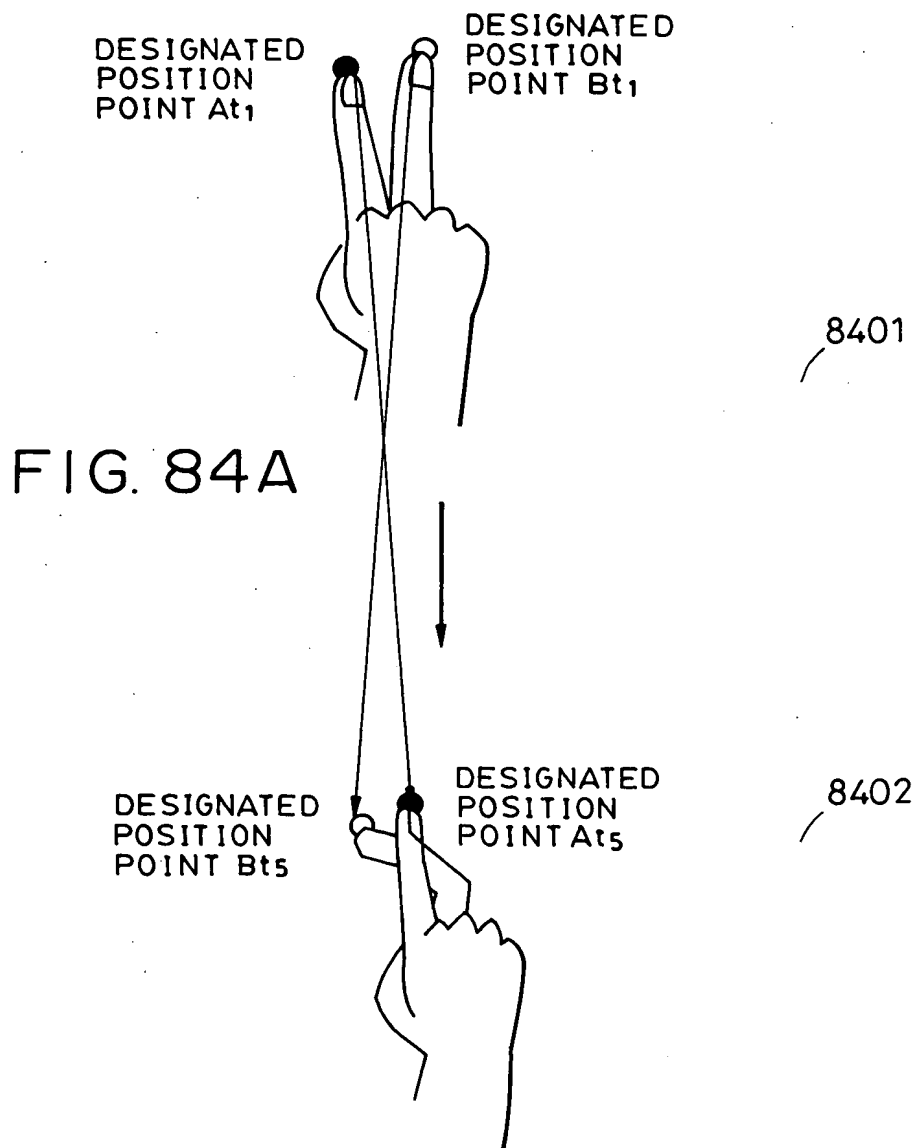


FIG. 84B

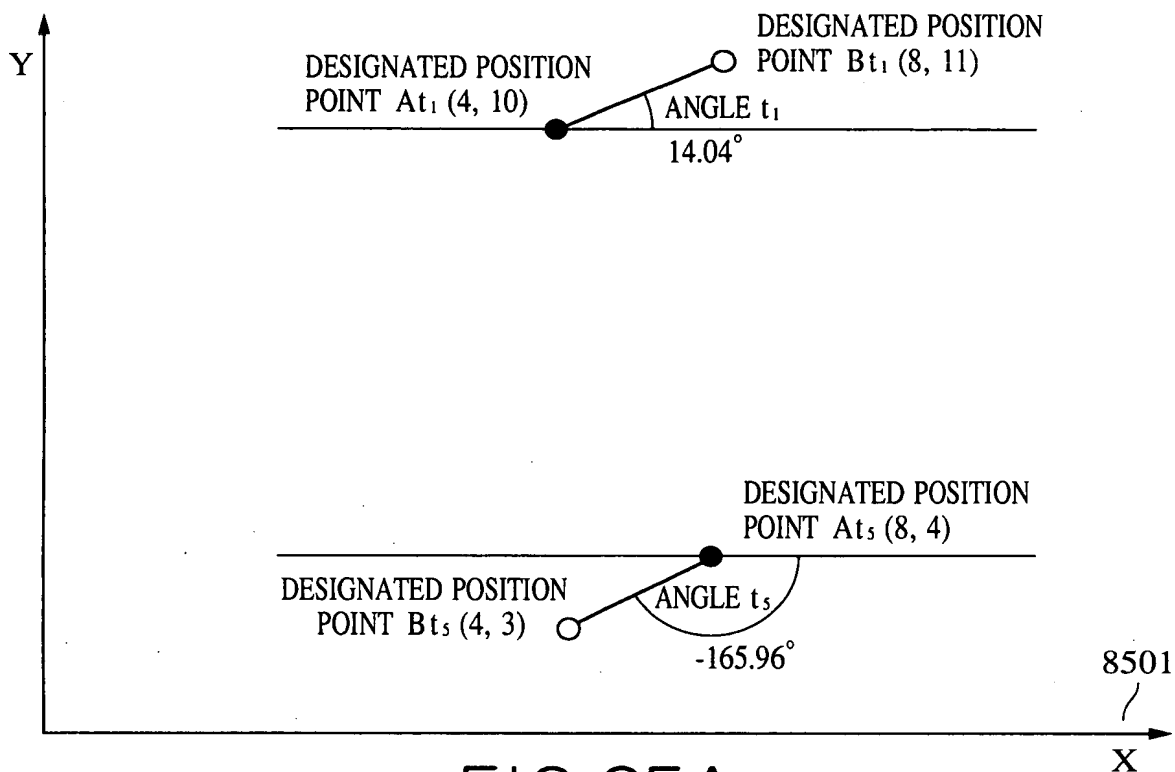


FIG. 85A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	4.0	10.0
$t_2$	5.0	8.0
$t_3$	6.0	6.0
$t_4$	7.0	5.0
$t_5$	8.0	4.0

FIG. 85B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	8.0	11.0
$t_2$	7.0	9.0
$t_3$	6.0	7.0
$t_4$	5.0	5.0
$t_5$	4.0	3.0

8502

FIG. 85C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
$t_1$	-4.0	-1.0	14.04	0.00
$t_2$	-2.0	-1.0	26.57	-12.53
$t_3$	0.0	-1.0	90.00	-75.99
$t_4$	2.0	0.0	180.00	-165.96
$t_5$	4.0	1.0	-165.96	180.00

8503

FIG. 85D



LATERAL INVERSION

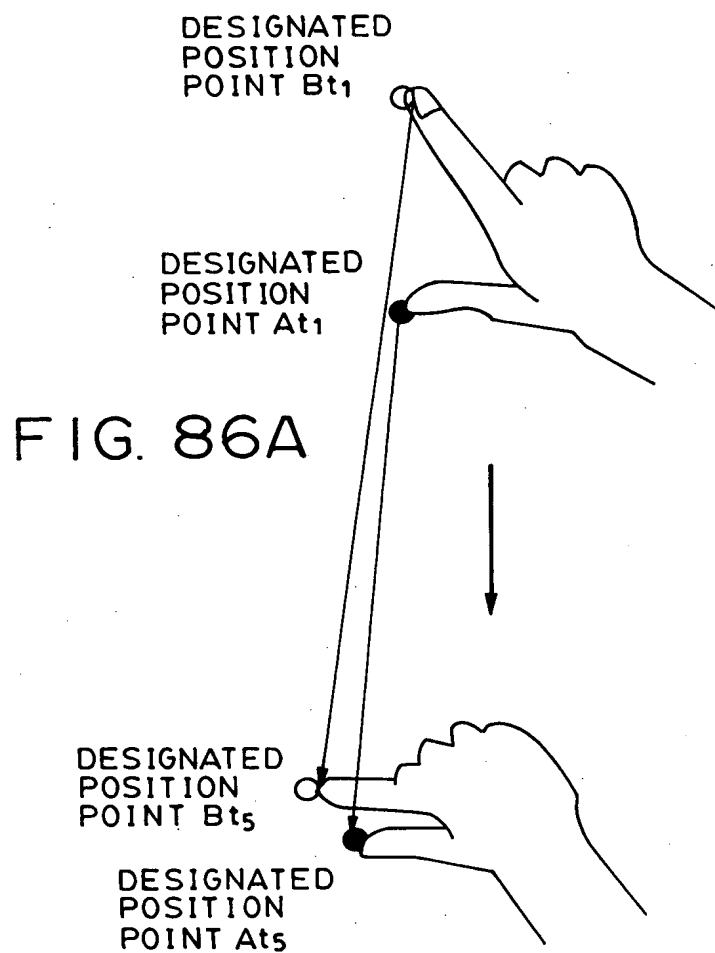


FIG. 86B

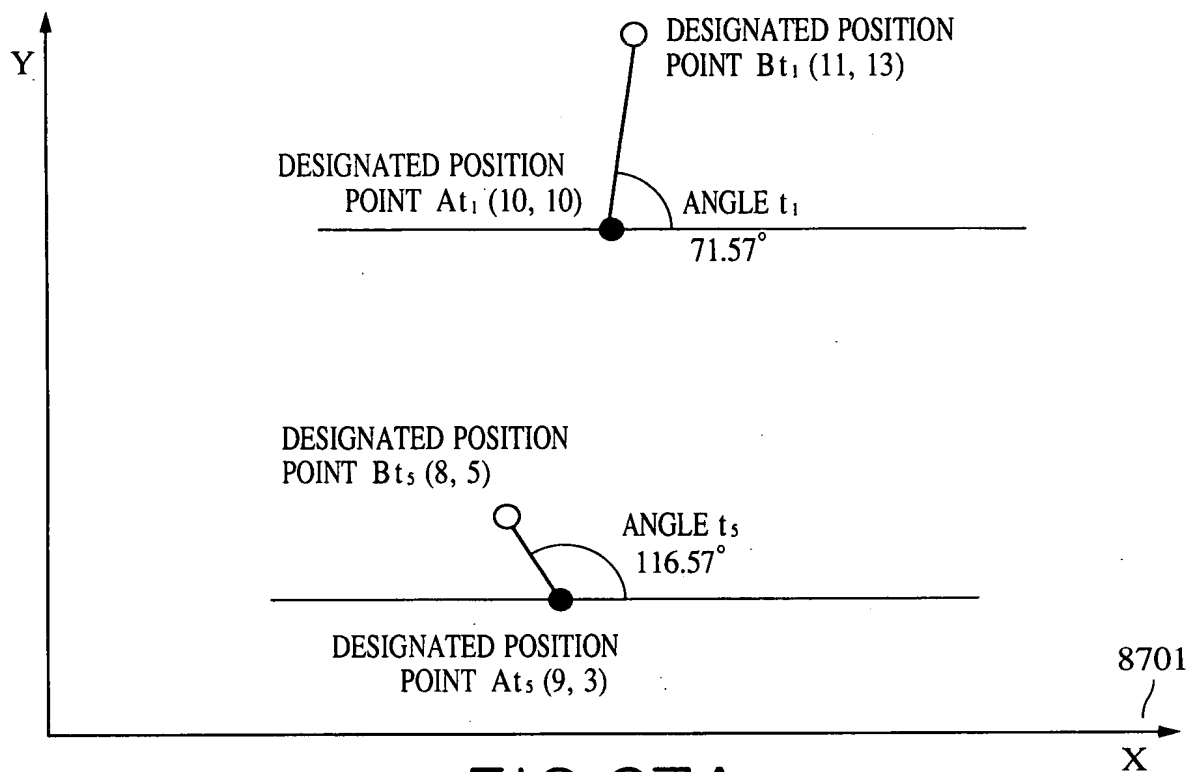


FIG. 87A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	10.0	10.0
$t_2$	9.8	8.0
$t_3$	9.6	6.0
$t_4$	9.3	5.0
$t_5$	9.0	3.0

FIG. 87B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	11.0	13.0
$t_2$	10.8	9.0
$t_3$	10.6	7.0
$t_4$	10.3	6.0
$t_5$	8.0	5.0

FIG. 87C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
$t_1$	-1.0	-3.0	71.57	0.00
$t_2$	-1.0	-1.0	45.00	26.57
$t_3$	-1.0	-1.0	45.00	26.57
$t_4$	-1.0	-1.0	45.00	26.57
$t_5$	1.0	-2.0	116.57	45.00

FIG. 87D

VERTICAL INVERSION

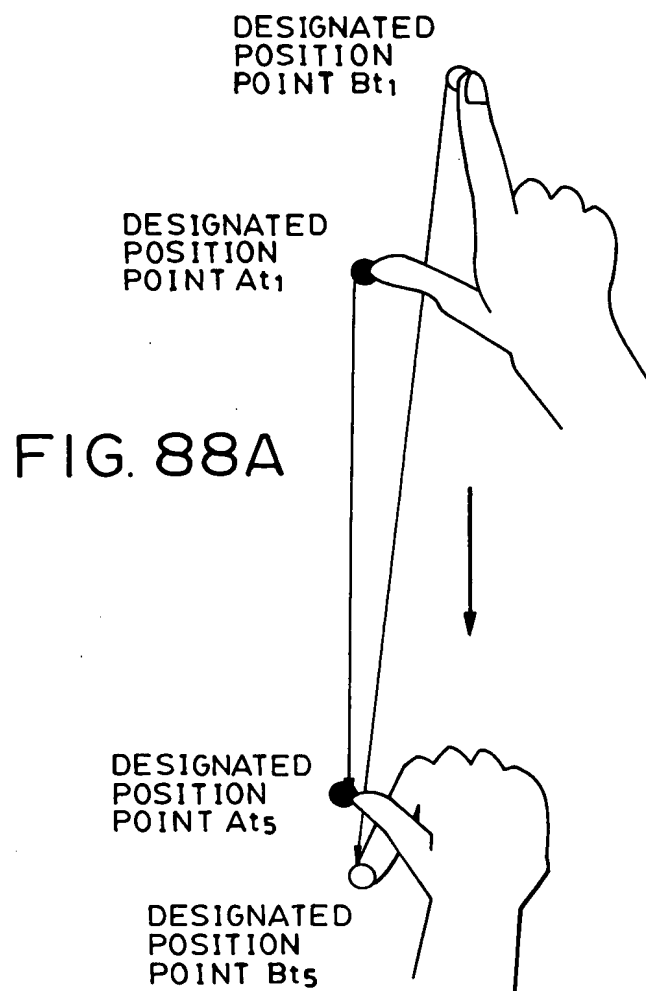


FIG. 88B

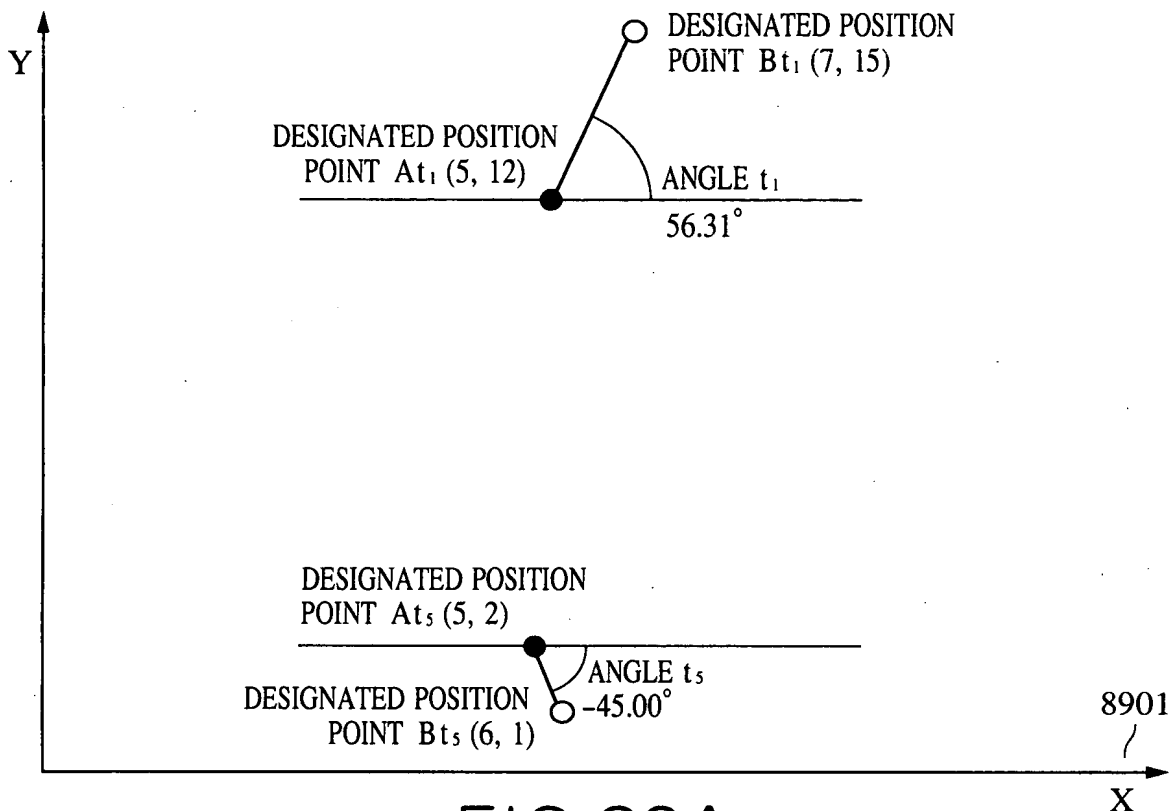


FIG. 89A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	$A_x$	$A_y$
$t_1$	5.0	12.0
$t_2$	5.0	9.0
$t_3$	5.0	6.0
$t_4$	5.0	3.0
$t_5$	5.0	2.0

FIG. 89B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	$B_x$	$B_y$
$t_1$	7.0	15.0
$t_2$	6.8	11.0
$t_3$	6.5	8.0
$t_4$	6.2	4.0
$t_5$	6.0	1.0

FIG. 89C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
$t_1$	-2.0	-3.0	56.31	0.00
$t_2$	-1.8	-2.0	48.01	8.30
$t_3$	-1.5	-2.0	53.13	3.18
$t_4$	-1.2	-1.0	39.81	16.50
$t_5$	-1.0	1.0	-45.00	101.31

FIG. 89D

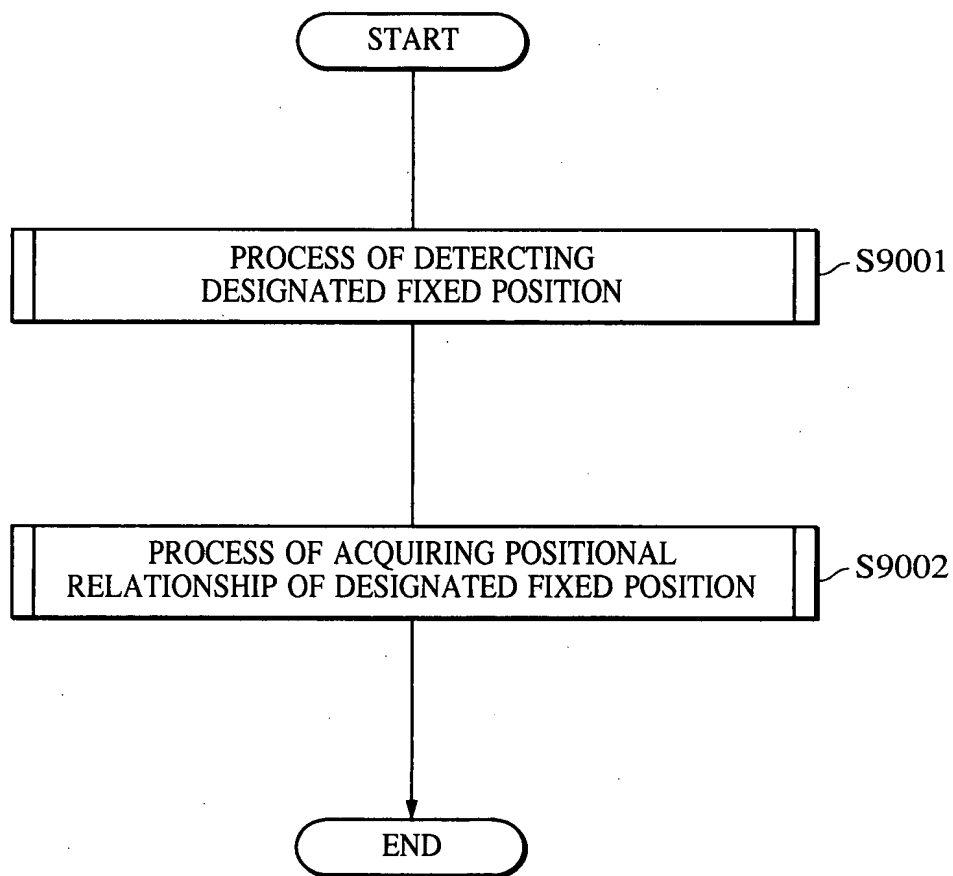


FIG. 90

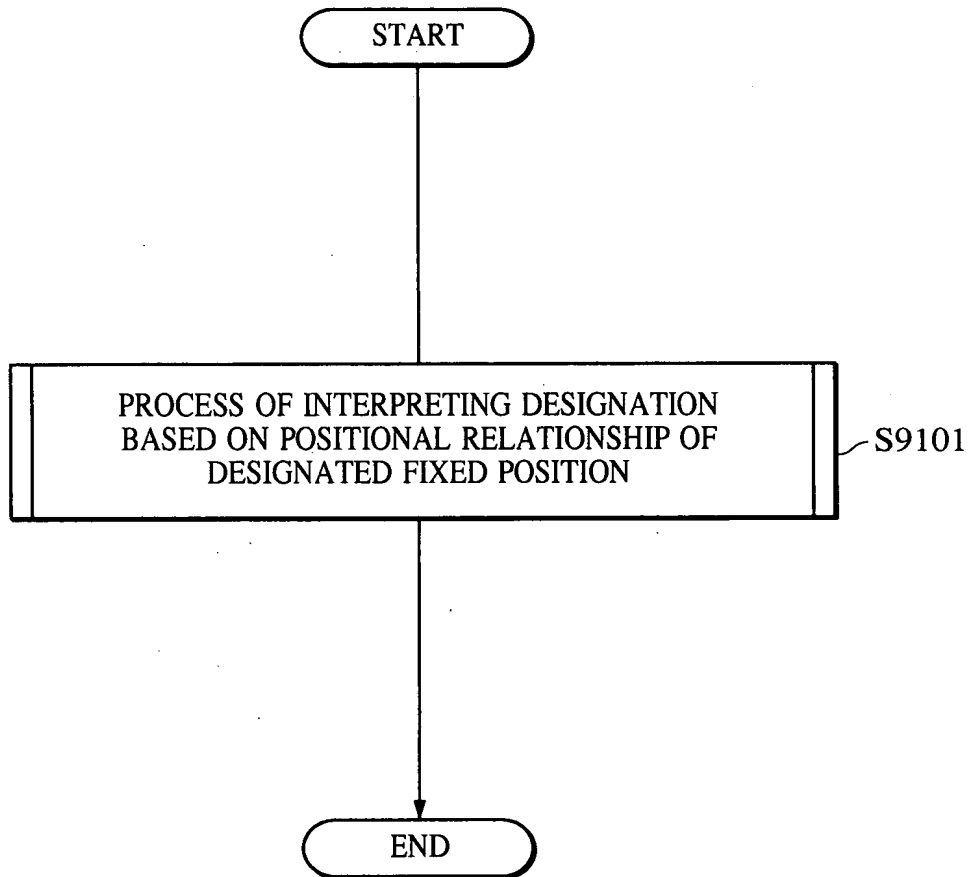


FIG. 91

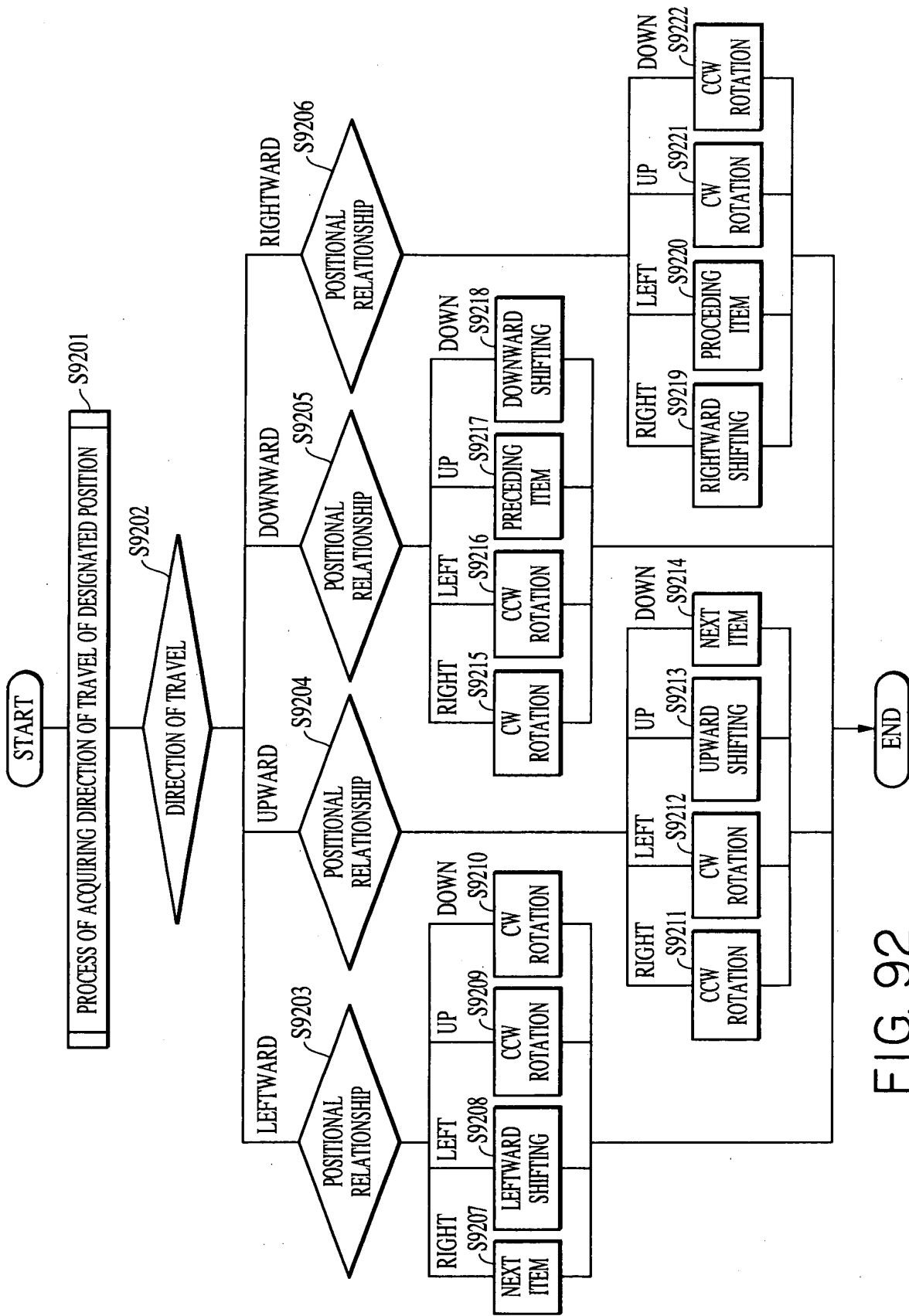


FIG. 92

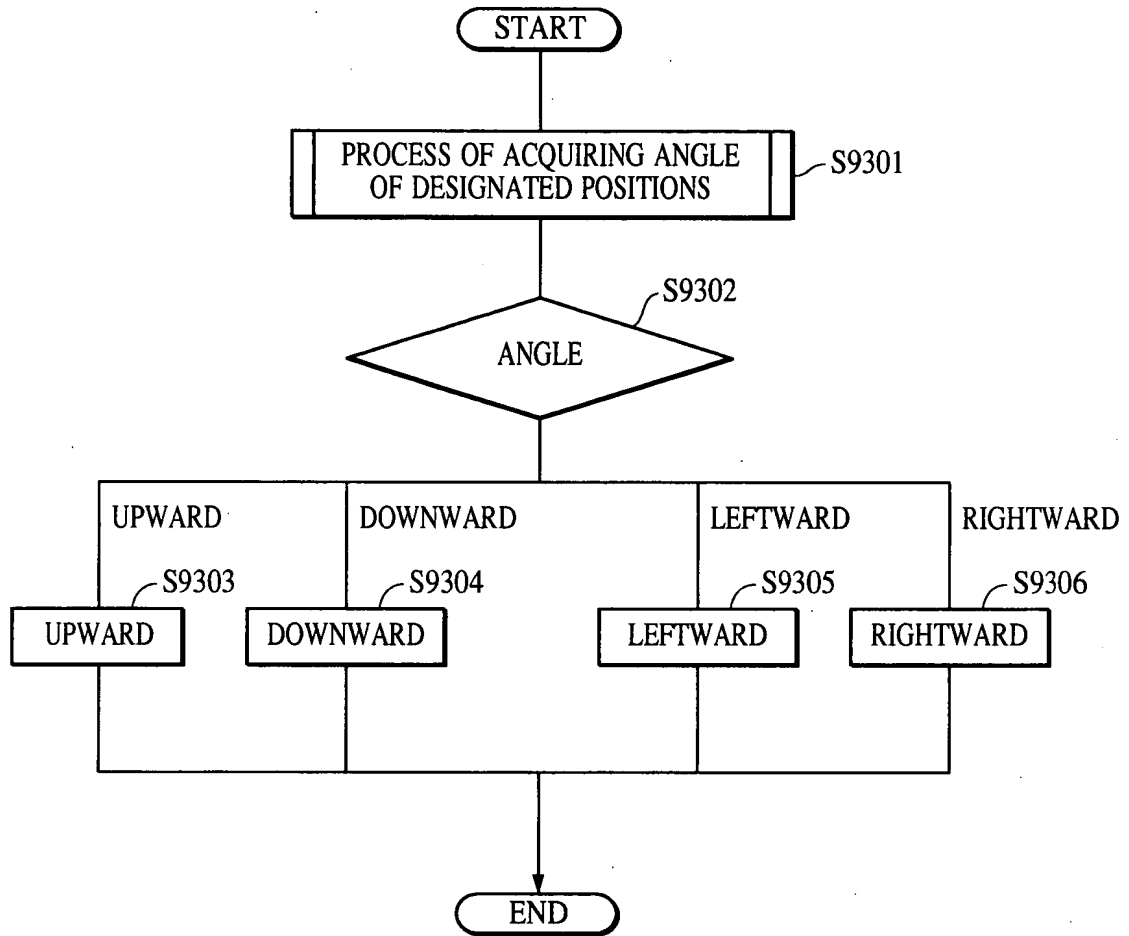


FIG. 93



FIG. 94

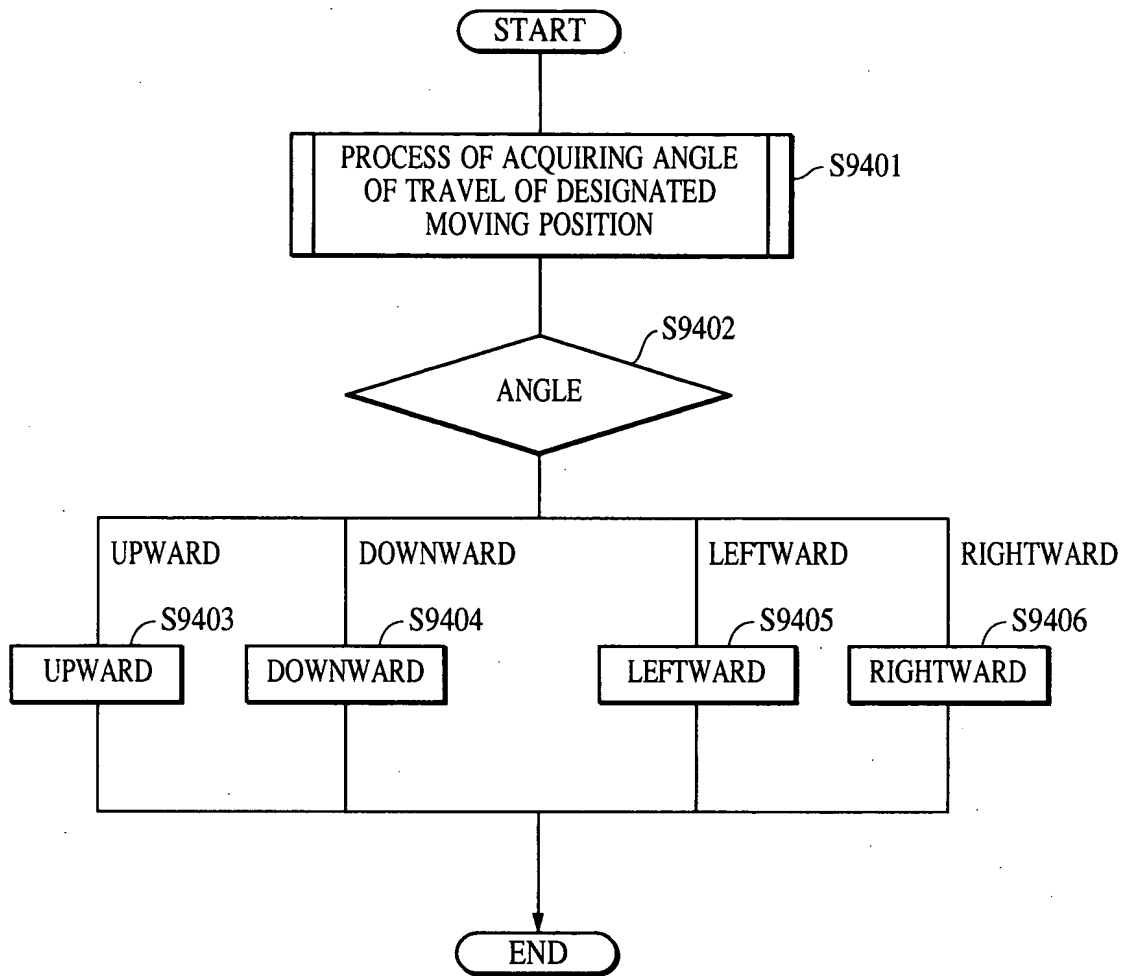
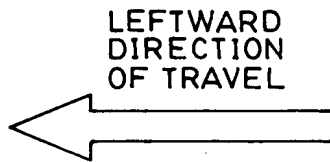


FIG. 94

FIG. 95A



MOVING POSITION ON LEFT  
OF FIXED POSITION

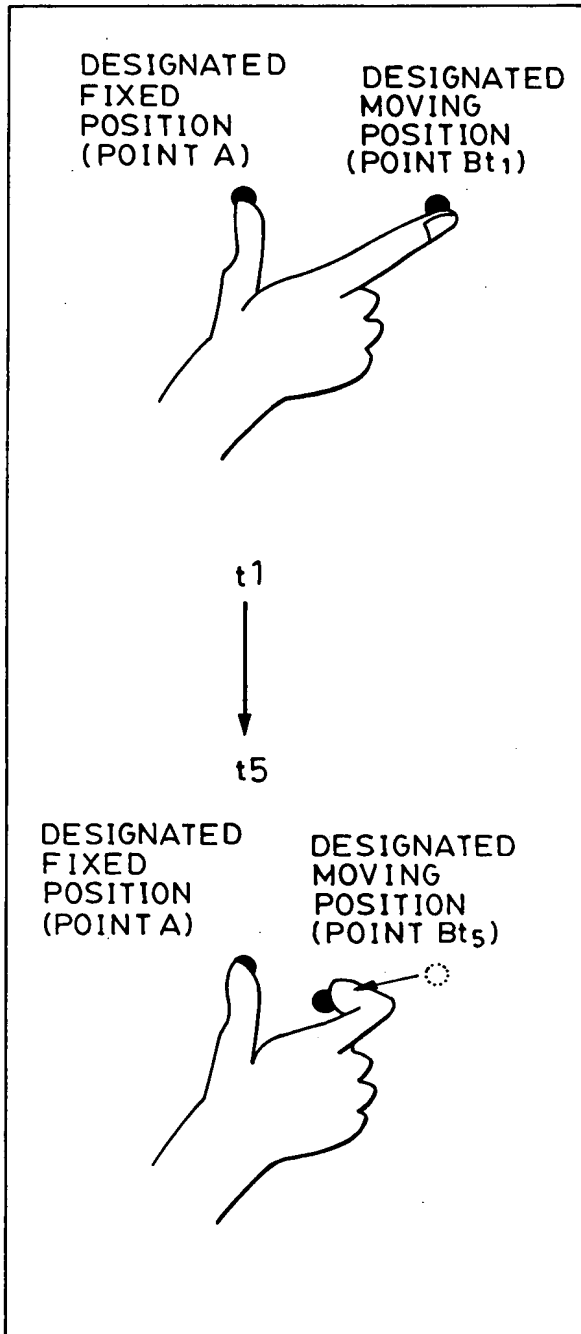


FIG. 95A

MOVING POSITION ON RIGHT  
OF FIXED POSITION

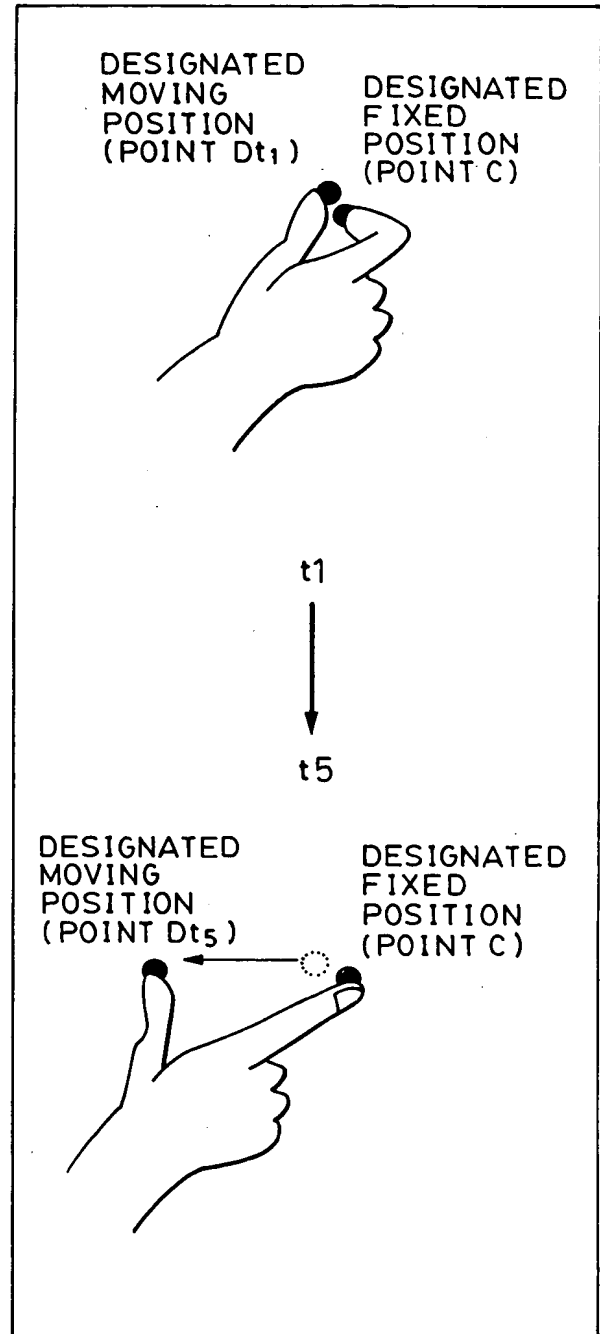


FIG. 95B

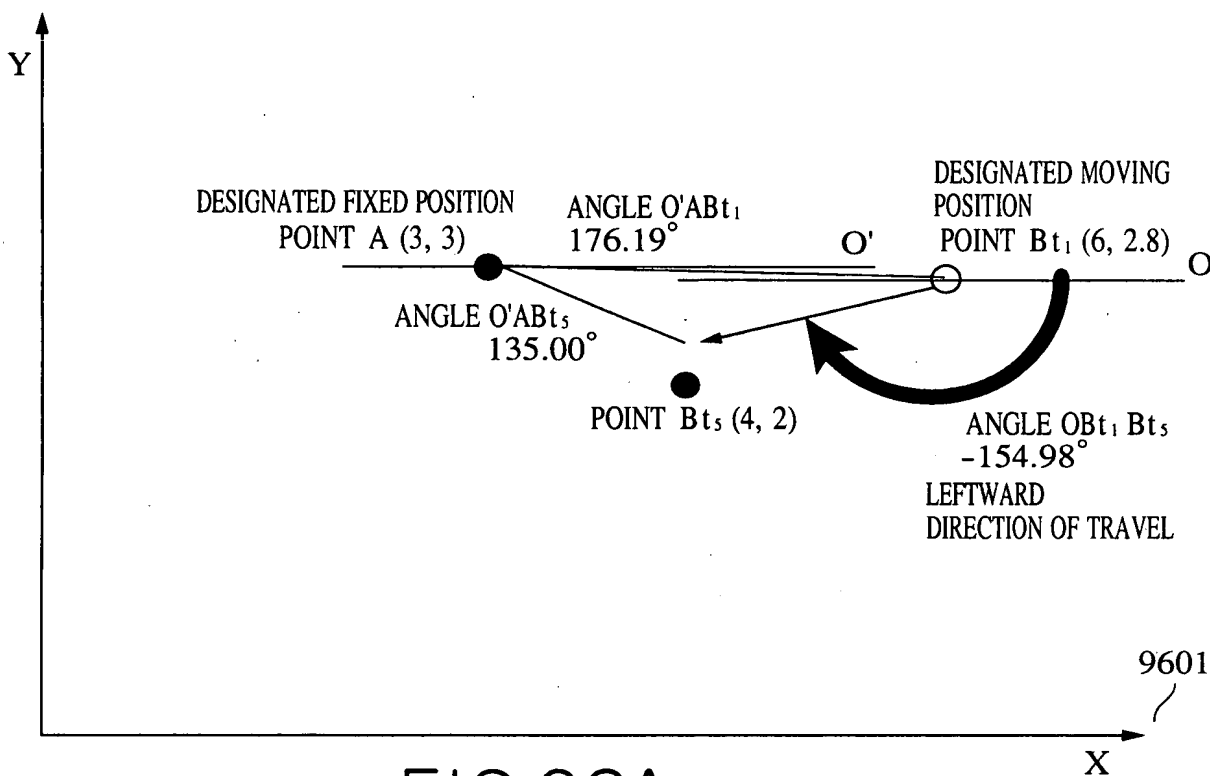


FIG. 96A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3	3
t <sub>2</sub>	3	3
t <sub>3</sub>	3	3
t <sub>4</sub>	3	3
t <sub>5</sub>	3	3

FIG. 96B

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	6.0	3.0
t <sub>2</sub>	5.3	2.3
t <sub>3</sub>	4.7	1.7
t <sub>4</sub>	4.3	1.2
t <sub>5</sub>	4.0	2.0

FIG. 96C

DATA OF TRAVEL OF DESIGNATED MOVING POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B	ANGLE OF DESIGNATED POSITIONS	DIRECTION OF TRAVEL
t <sub>1</sub>	0.000	0.000	176.19	-158.20
t <sub>2</sub>	0.000	0.000	163.30	-154.98
t <sub>3</sub>	0.000	1.729	142.05	-154.98
t <sub>4</sub>	0.000	2.310	126.53	-154.98
t <sub>5</sub>	0.000	2.154	135.00	-154.98

FIG. 96D

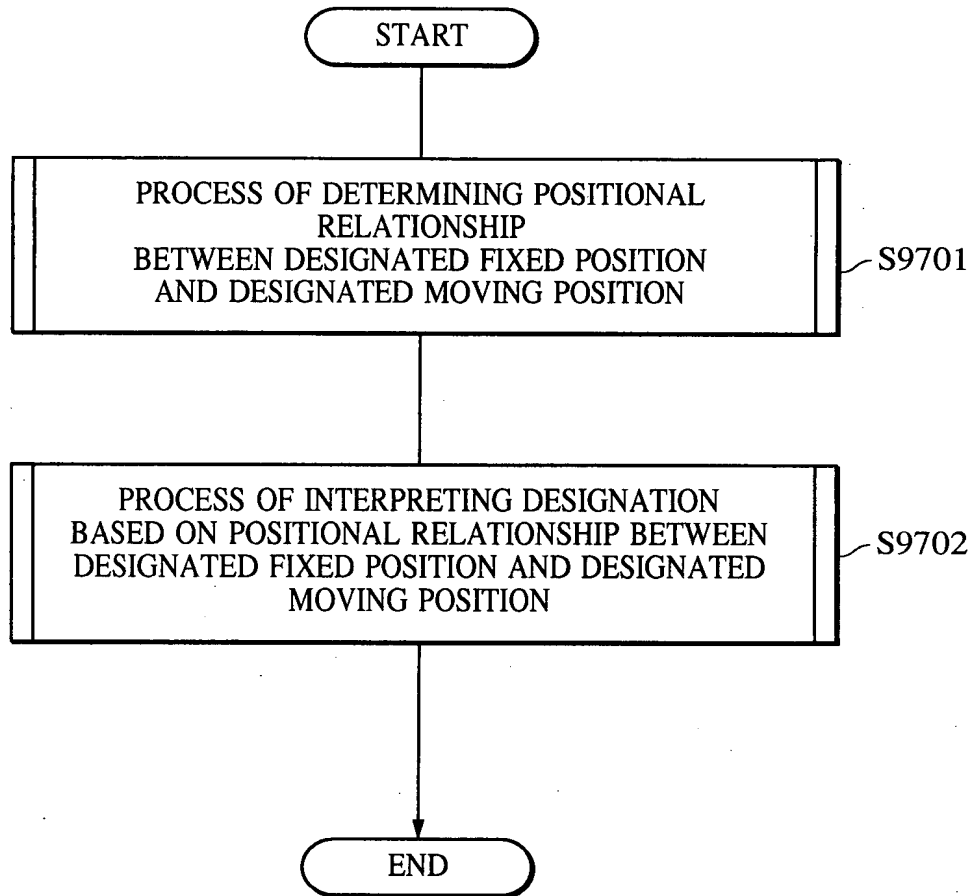


FIG. 97

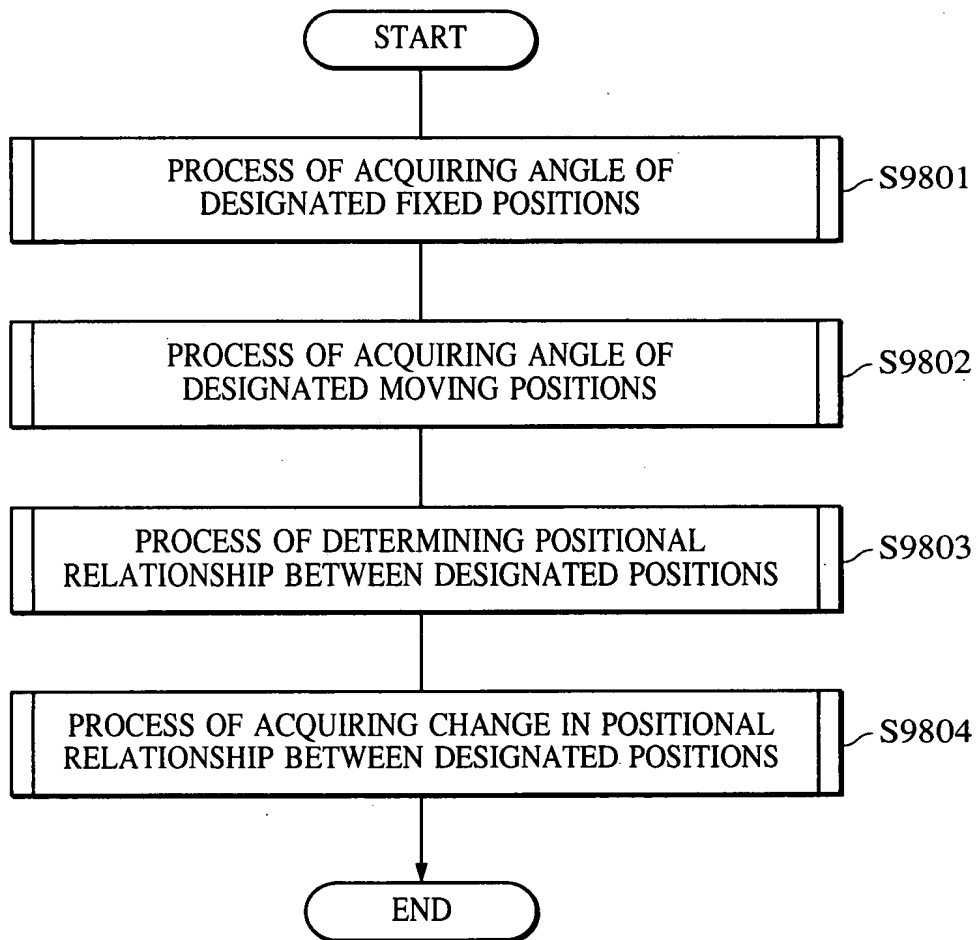


FIG. 98

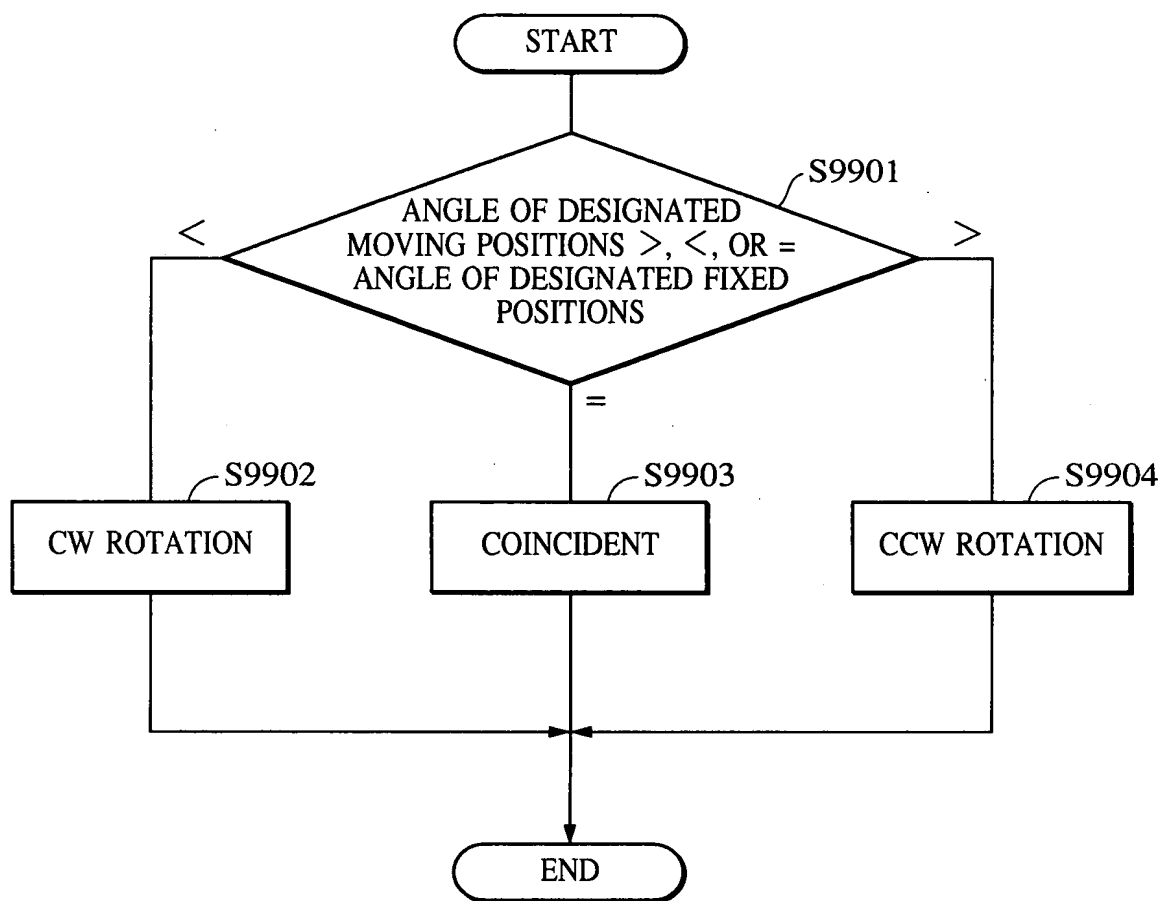


FIG. 99

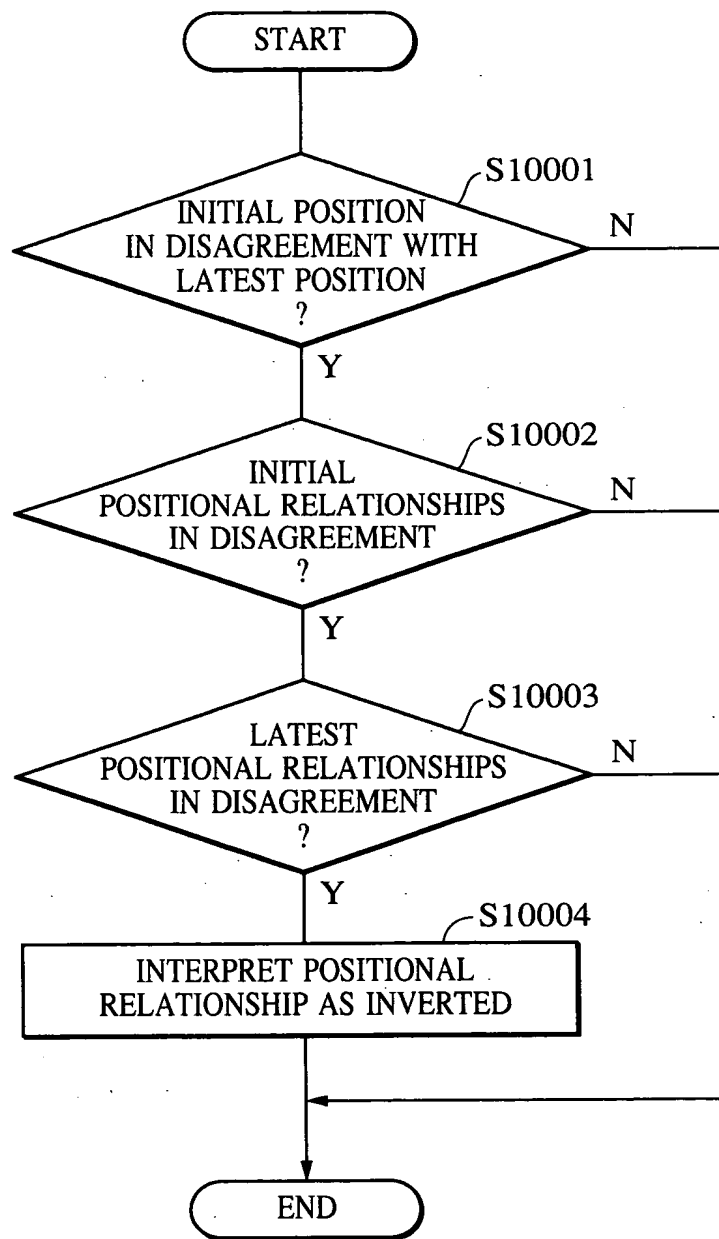


FIG. 100

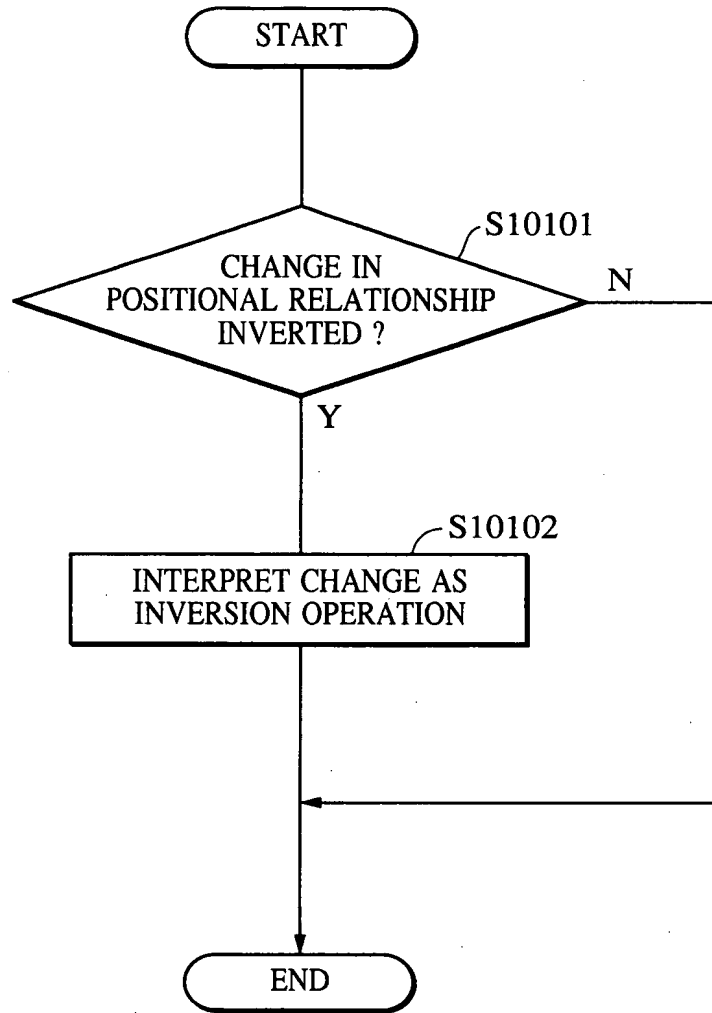


FIG. 101



SYMMETRICAL INVERSION

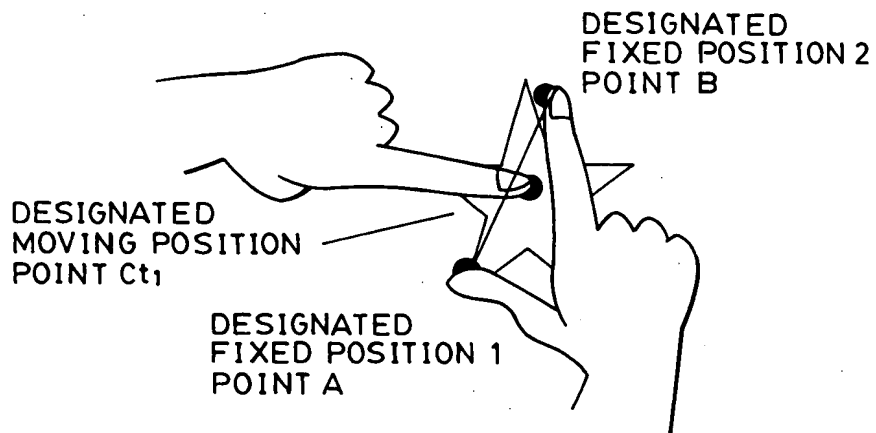


FIG. 102A

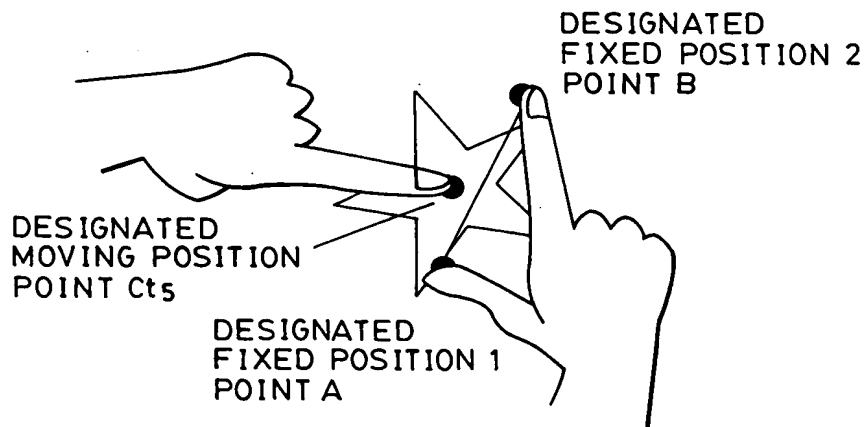


FIG. 102B

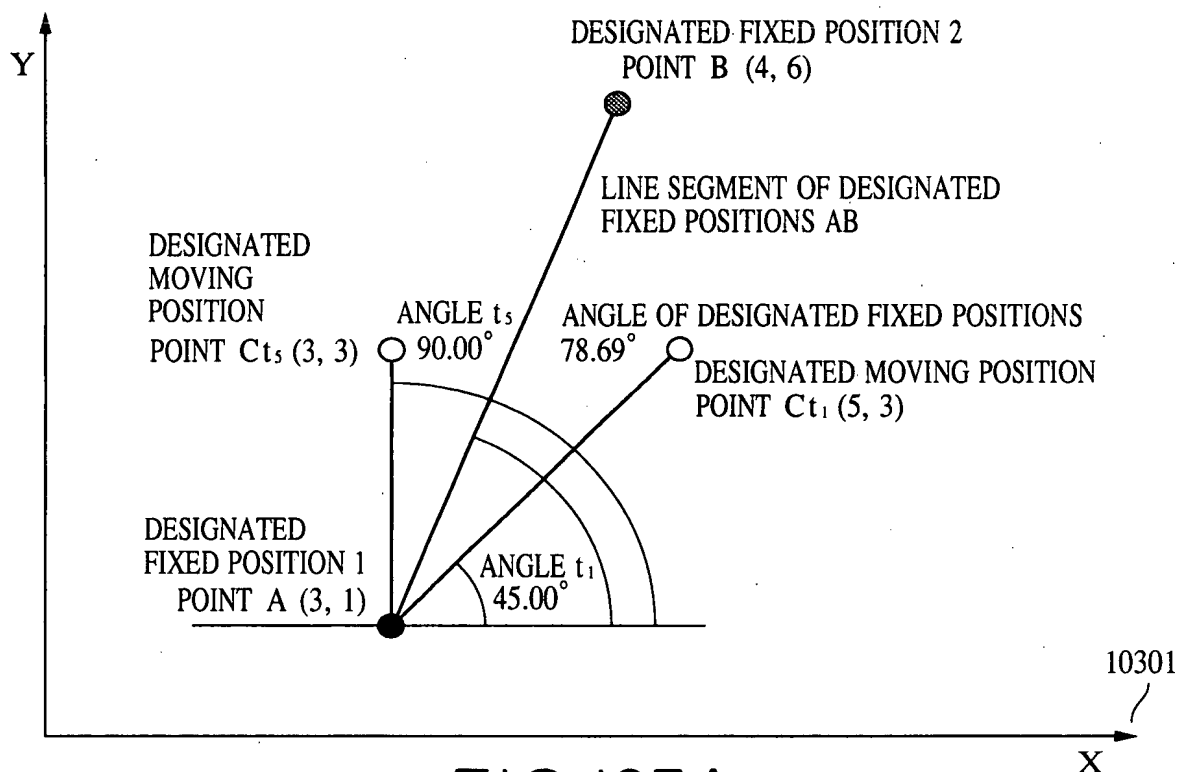


FIG. 103A

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3.0	1.0
t <sub>2</sub>	3.0	1.0
t <sub>3</sub>	3.0	1.0
t <sub>4</sub>	3.0	1.0
t <sub>5</sub>	3.0	1.0

DESIGNATED FIXED POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	6.0
t <sub>2</sub>	4.0	6.0
t <sub>3</sub>	4.0	6.0
t <sub>4</sub>	4.0	6.0
t <sub>5</sub>	4.0	6.0

DESIGNATED MOVING POSITION  
POSITION DATA OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	5.0	3.0
t <sub>2</sub>	4.5	3.0
t <sub>3</sub>	4.0	3.0
t <sub>4</sub>	3.5	3.0
t <sub>5</sub>	3.0	3.0

10302

FIG. 103B

FIG. 103C

FIG. 103D

POSITIONAL RELATIONSHIP DATA OF TWO DESIGNATED  
FIXED POSITIONS AND DESIGNATED MOVING POSITION

	ANGLE OF FIXED POSITIONS	ANGLE OF MOVING POSITIONS
t <sub>1</sub>	78.69	45.00
t <sub>2</sub>	78.69	53.13
t <sub>3</sub>	78.69	63.43
t <sub>4</sub>	78.69	75.96
t <sub>5</sub>	78.69	90.00

10303

FIG. 103E

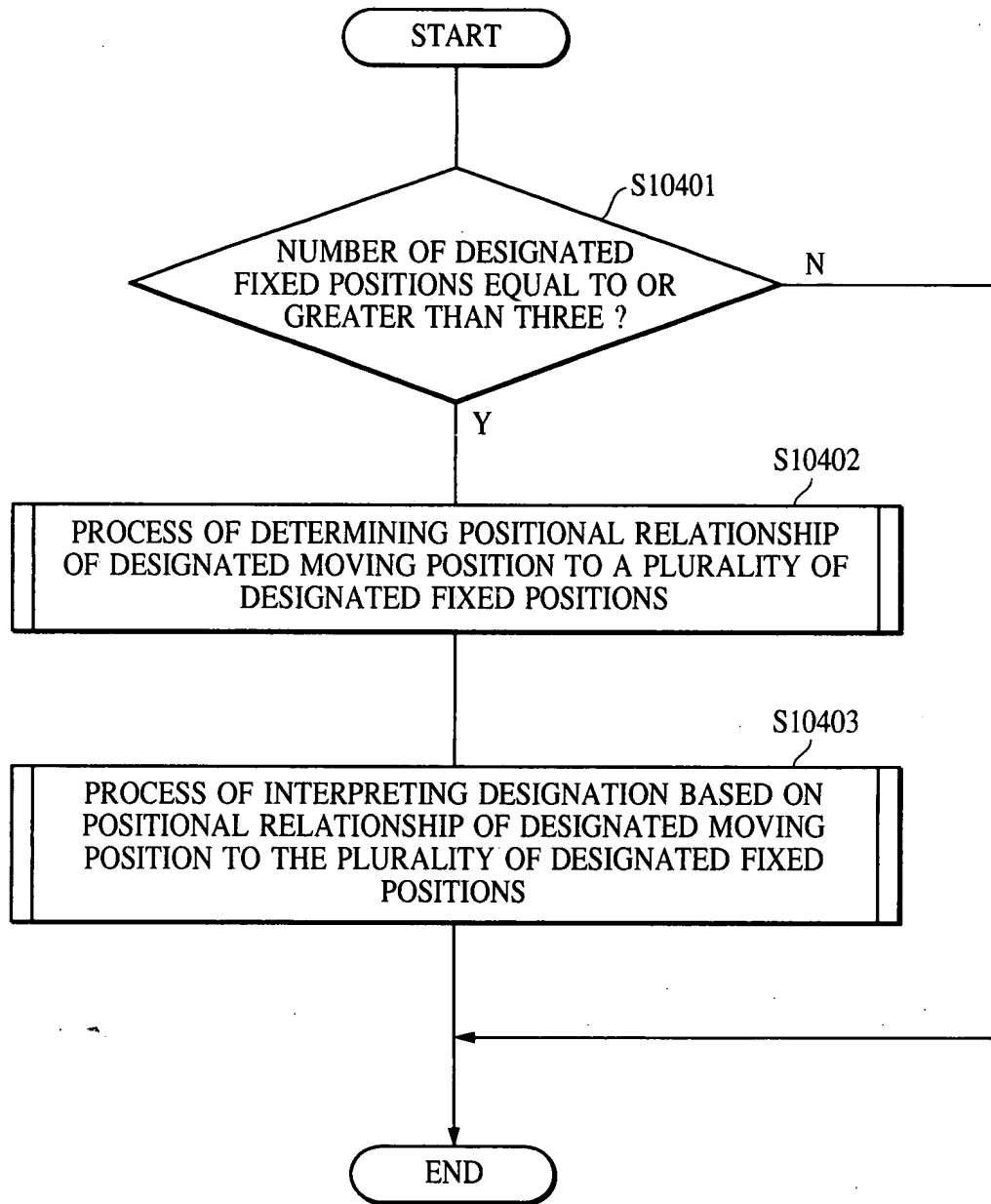


FIG. 104

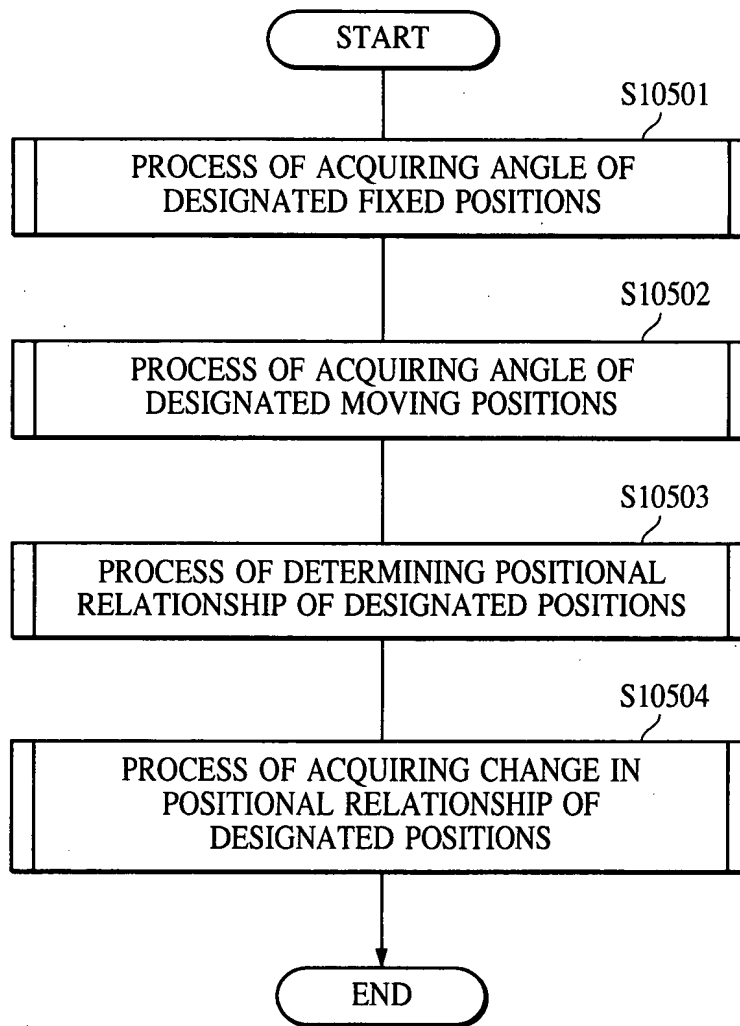


FIG. 105

```

graph TD
    START([START]) --> S10601[ACQUIRE DESIGNATED FIXED POSITION FROM DESIGNATED FIXED POSITION LIST IN DESIGNATED FIXED POSITION TABLE]
    S10601 --> S10602[ACQUIRE FIRST DESIGNATED FIXED POSITION FROM DESIGNATED FIXED POSITION LIST]
    S10602 --> S10603{POSITION TO BE ACQUIRED < LAST DESIGNATED FIXED POSITION ?}
    S10603 -- N --> S10608[INTERPRET POSITION TO BE ACQUIRED AS BEING WITHIN AREA]
    S10603 -- Y --> S10604[ACQUIRE DESIGNATED FIXED POSITION]
    S10604 --> S10605{MAXIMUM ANGLE OF DESIGNATED FIXED POSITIONS ≥ ANGLE OF DESIGNATED MOVING POSITIONS ?}
    S10605 -- N --> S10609[INTERPRET POSITION TO BE ACQUIRED AS BEING OUT OF AREA]
    S10605 -- Y --> S10606{MINIMUM ANGLE OF DESIGNATED FIXED POSITIONS ≤ ANGLE OF DESIGNATED MOVING POSITIONS ?}
    S10606 -- N --> S10609
    S10606 -- Y --> S10607[ADVANCE IN DESIGNATED FIXED POSITION IN DESIGNATED FIXED POSITION TABLE]
    S10607 --> S10603
    S10608 --> END([END])
    S10609 --> END
  
```

FIG. 106

WITHIN AREA

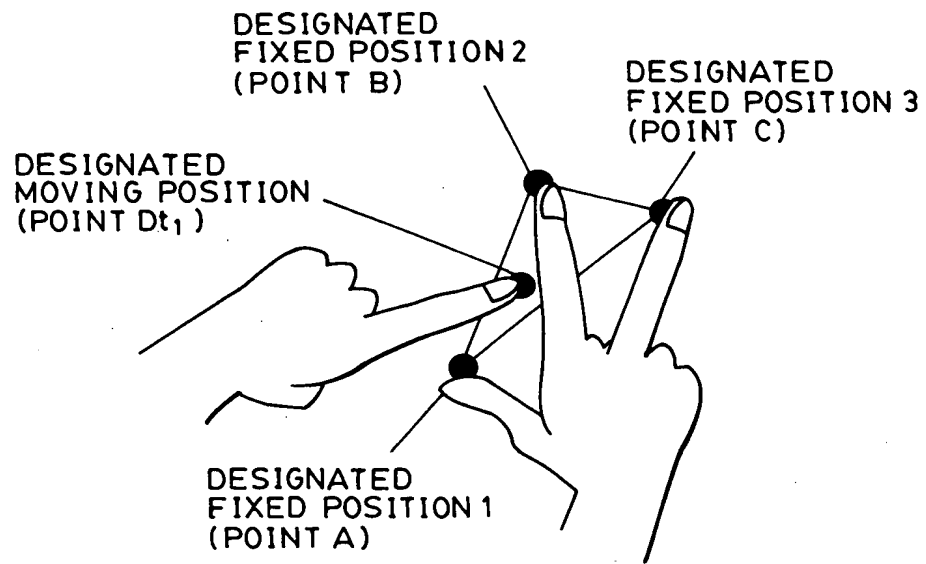


FIG. 107

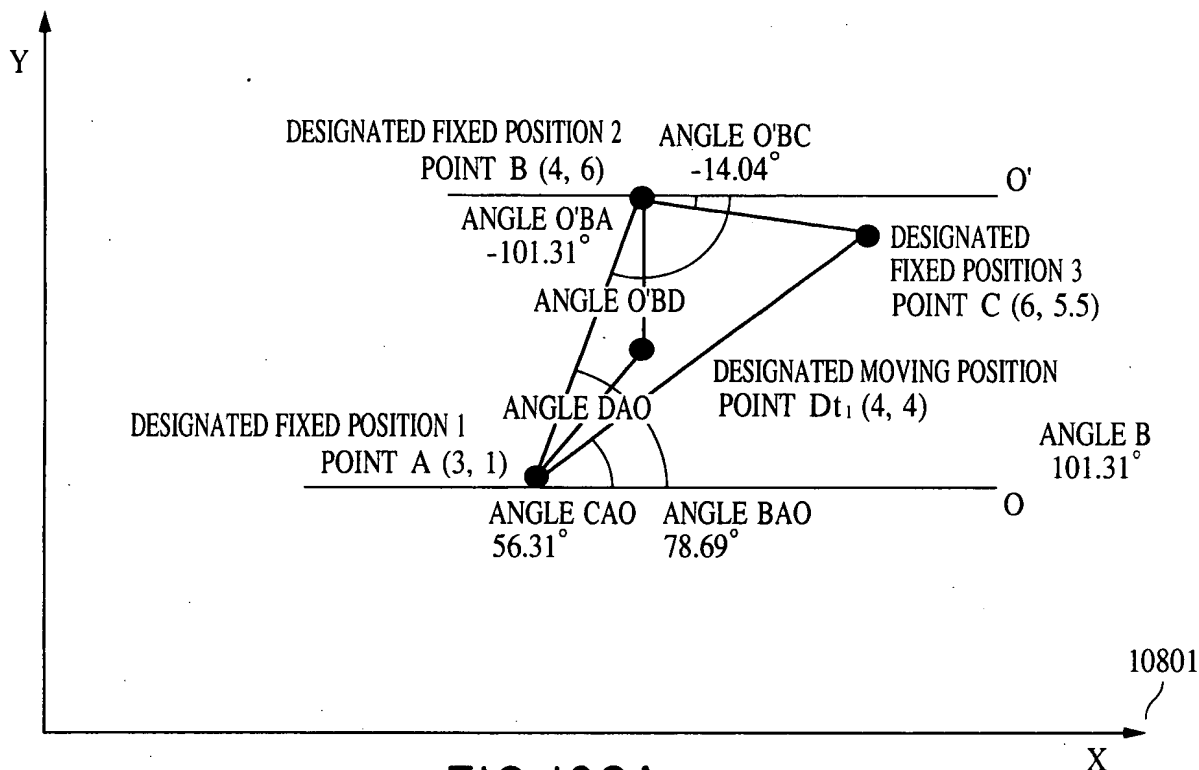


FIG. 108A

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT A

	$A_x$	$A_y$
$t_1$	3.0	1.0

FIG. 108B

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT B

	$B_x$	$B_y$
$t_1$	4.0	6.0

FIG. 108C

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT C

	$C_x$	$C_y$
$t_1$	6.0	5.5

FIG. 108D

DESIGNATED  
MOVING POSITION  
POSITION DATA OF  
POINT D

	$D_x$	$D_y$
$t_1$	4.0	4.0

FIG. 108E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF  
DESIGNATED FIXED POSITIONS

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
$t_1$	78.69	56.31	71.57	-101.31	-14.04	-90.00

FIG. 108F

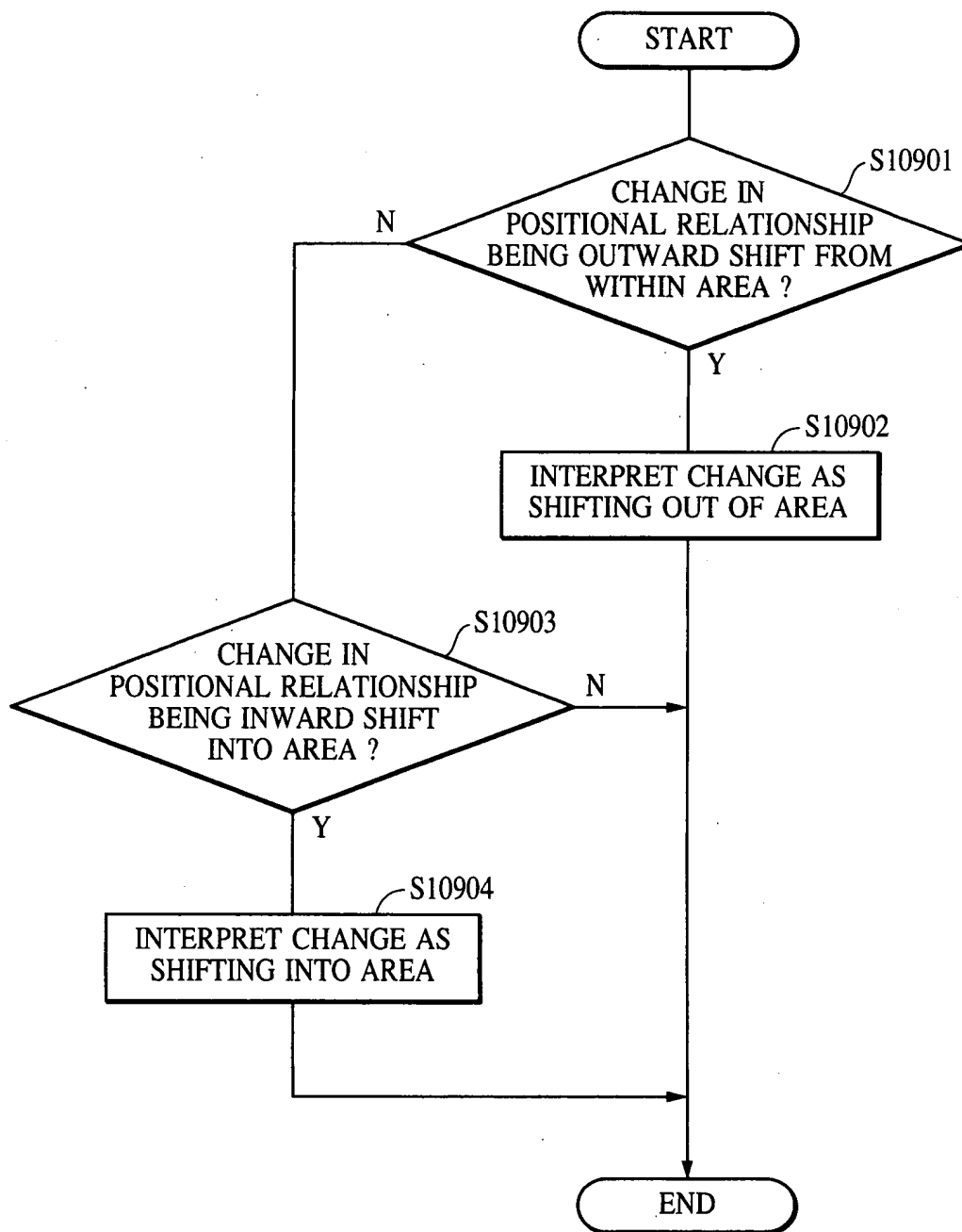


FIG. 109



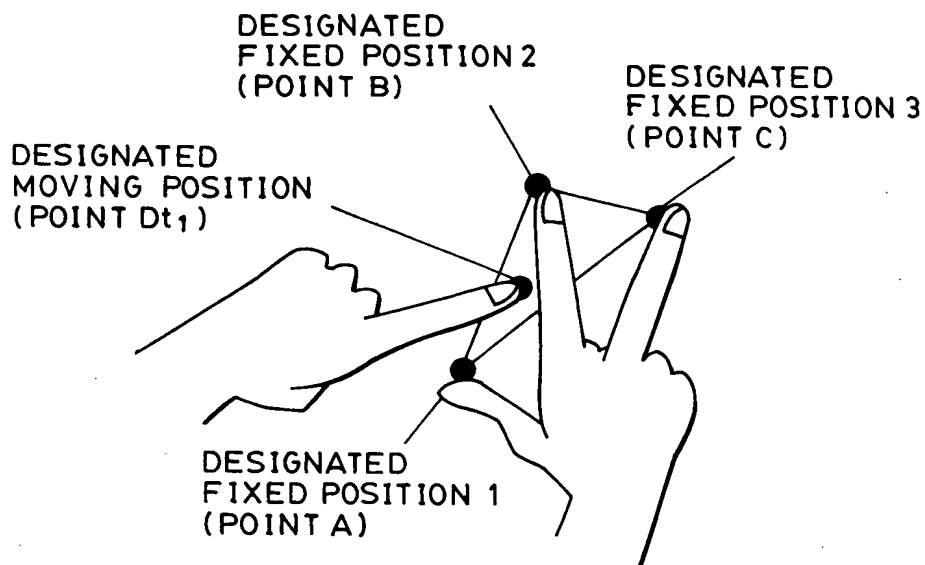


FIG. 110A

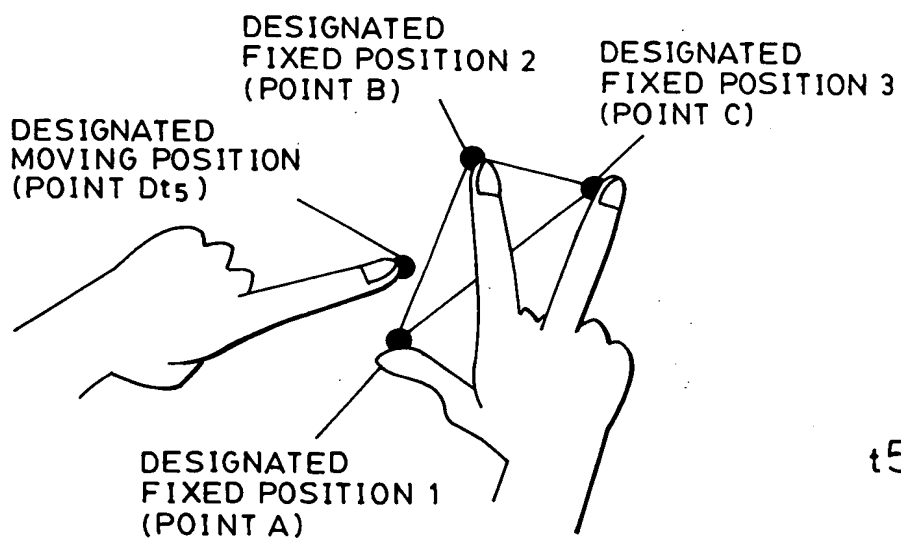


FIG. 110B

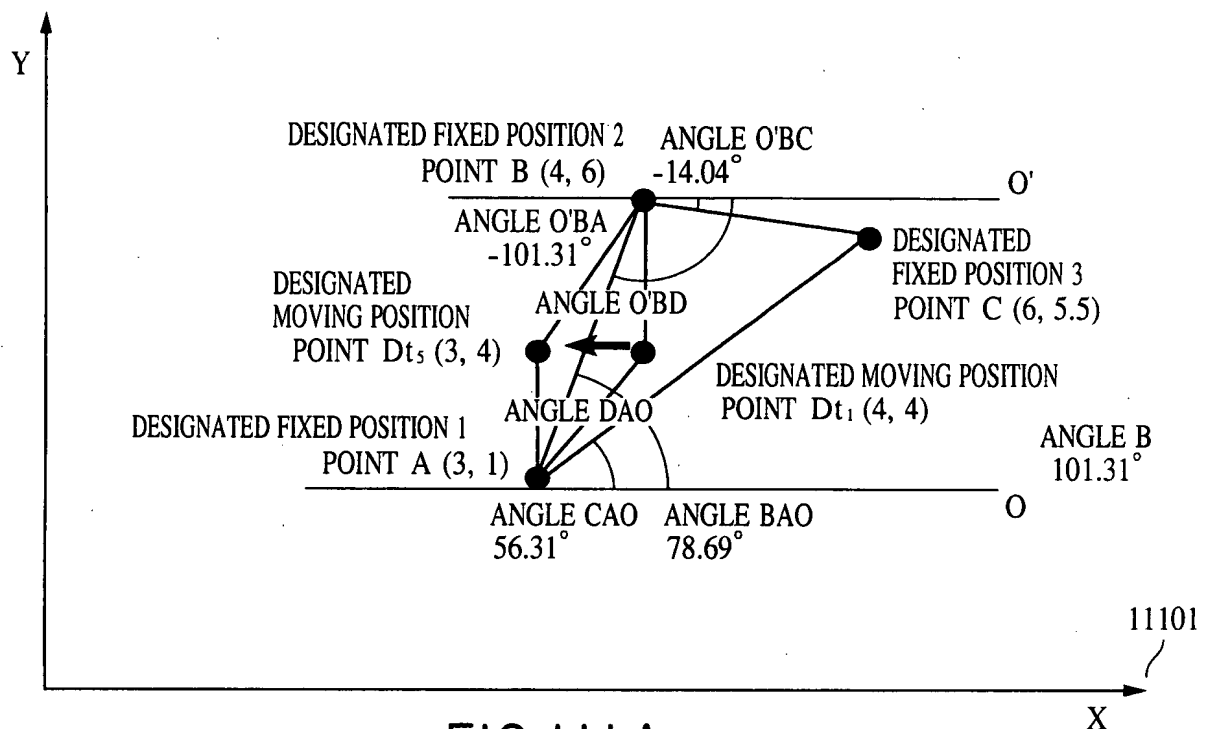


FIG. 111A

DESIGNATED FIXED POSITION POSITION DATA OF POINT A	DESIGNATED FIXED POSITION POSITION DATA OF POINT B	DESIGNATED FIXED POSITION POSITION DATA OF POINT C	DESIGNATED MOVING POSITION POSITION DATA OF POINT D																																																																								
<table> <tr><td></td><td><math>A_x</math></td><td><math>A_y</math></td></tr> <tr><td><math>t_1</math></td><td>3.0</td><td>1.0</td></tr> <tr><td><math>t_2</math></td><td>3.0</td><td>1.0</td></tr> <tr><td><math>t_3</math></td><td>3.0</td><td>1.0</td></tr> <tr><td><math>t_4</math></td><td>3.0</td><td>1.0</td></tr> <tr><td><math>t_5</math></td><td>3.0</td><td>1.0</td></tr> </table>		$A_x$	$A_y$	$t_1$	3.0	1.0	$t_2$	3.0	1.0	$t_3$	3.0	1.0	$t_4$	3.0	1.0	$t_5$	3.0	1.0	<table> <tr><td></td><td><math>B_x</math></td><td><math>B_y</math></td></tr> <tr><td><math>t_1</math></td><td>4.0</td><td>6.0</td></tr> <tr><td><math>t_2</math></td><td>4.0</td><td>6.0</td></tr> <tr><td><math>t_3</math></td><td>4.0</td><td>6.0</td></tr> <tr><td><math>t_4</math></td><td>4.0</td><td>6.0</td></tr> <tr><td><math>t_5</math></td><td>4.0</td><td>6.0</td></tr> </table>		$B_x$	$B_y$	$t_1$	4.0	6.0	$t_2$	4.0	6.0	$t_3$	4.0	6.0	$t_4$	4.0	6.0	$t_5$	4.0	6.0	<table> <tr><td></td><td><math>C_x</math></td><td><math>C_y</math></td></tr> <tr><td><math>t_1</math></td><td>6.0</td><td>5.5</td></tr> <tr><td><math>t_2</math></td><td>6.0</td><td>5.5</td></tr> <tr><td><math>t_3</math></td><td>6.0</td><td>5.5</td></tr> <tr><td><math>t_4</math></td><td>6.0</td><td>5.5</td></tr> <tr><td><math>t_5</math></td><td>6.0</td><td>5.5</td></tr> </table>		$C_x$	$C_y$	$t_1$	6.0	5.5	$t_2$	6.0	5.5	$t_3$	6.0	5.5	$t_4$	6.0	5.5	$t_5$	6.0	5.5	<table> <tr><td></td><td><math>D_x</math></td><td><math>D_y</math></td></tr> <tr><td><math>t_1</math></td><td>4.0</td><td>4.0</td></tr> <tr><td><math>t_2</math></td><td>3.8</td><td>4.0</td></tr> <tr><td><math>t_3</math></td><td>3.6</td><td>4.0</td></tr> <tr><td><math>t_4</math></td><td>3.3</td><td>4.0</td></tr> <tr><td><math>t_5</math></td><td>3.0</td><td>4.0</td></tr> </table>		$D_x$	$D_y$	$t_1$	4.0	4.0	$t_2$	3.8	4.0	$t_3$	3.6	4.0	$t_4$	3.3	4.0	$t_5$	3.0	4.0
	$A_x$	$A_y$																																																																									
$t_1$	3.0	1.0																																																																									
$t_2$	3.0	1.0																																																																									
$t_3$	3.0	1.0																																																																									
$t_4$	3.0	1.0																																																																									
$t_5$	3.0	1.0																																																																									
	$B_x$	$B_y$																																																																									
$t_1$	4.0	6.0																																																																									
$t_2$	4.0	6.0																																																																									
$t_3$	4.0	6.0																																																																									
$t_4$	4.0	6.0																																																																									
$t_5$	4.0	6.0																																																																									
	$C_x$	$C_y$																																																																									
$t_1$	6.0	5.5																																																																									
$t_2$	6.0	5.5																																																																									
$t_3$	6.0	5.5																																																																									
$t_4$	6.0	5.5																																																																									
$t_5$	6.0	5.5																																																																									
	$D_x$	$D_y$																																																																									
$t_1$	4.0	4.0																																																																									
$t_2$	3.8	4.0																																																																									
$t_3$	3.6	4.0																																																																									
$t_4$	3.3	4.0																																																																									
$t_5$	3.0	4.0																																																																									

FIG. 111B    FIG. 111C    FIG. 111D    FIG. 111E

### DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF DESIGNATED FIXED POSITIONS

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t <sub>1</sub>	78.69	56.31	71.57	-101.31	-14.04	-90.00
t <sub>2</sub>	78.69	56.31	57.07	-101.31	-14.04	-95.71
t <sub>3</sub>	78.69	56.31	78.69	-101.31	-14.04	-101.31
t <sub>4</sub>	78.69	56.31	84.29	-101.31	-14.04	-109.29
t <sub>5</sub>	78.69	56.31	90.00	-101.31	-14.04	-116.57

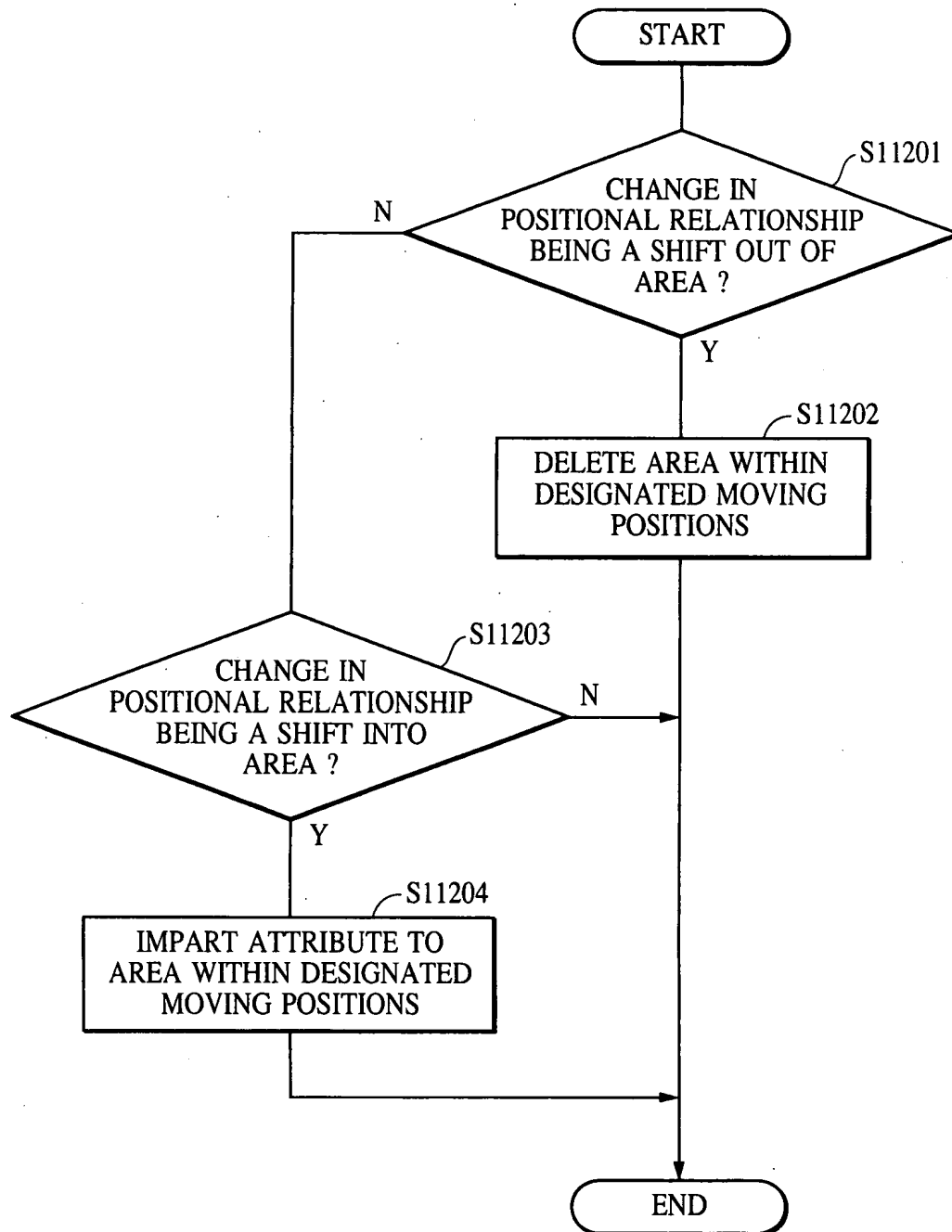


FIG. 112



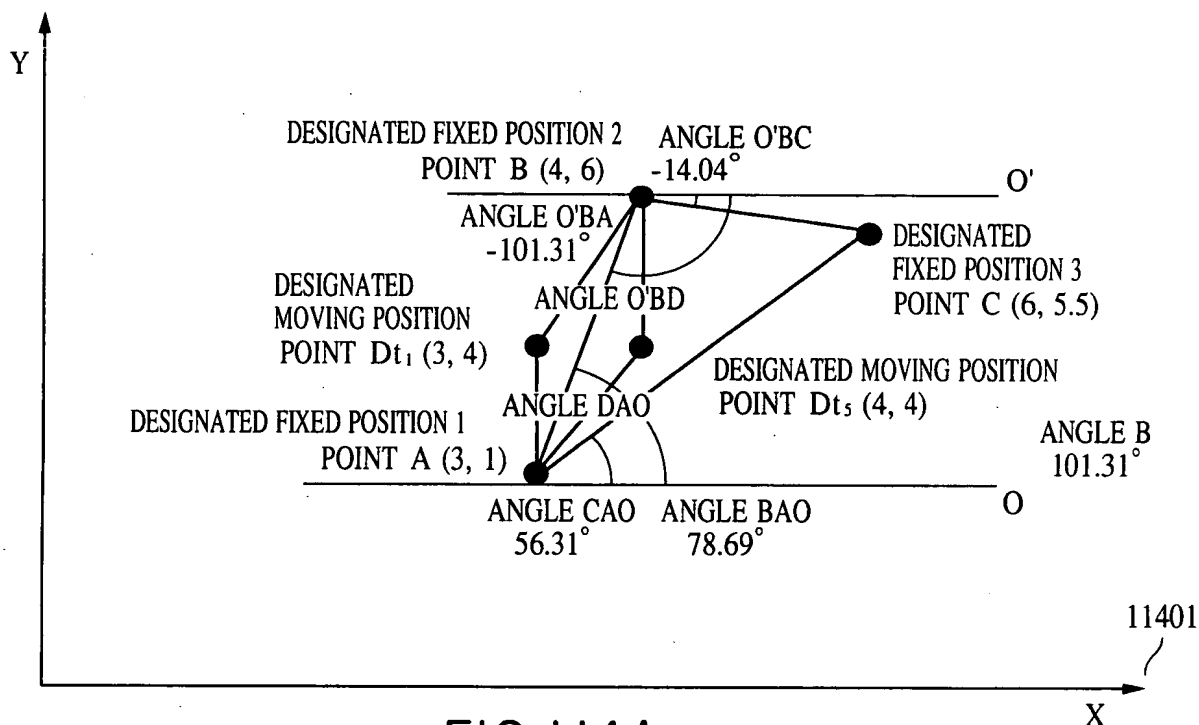


FIG. 114A

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT A

	$A_x$	$A_y$
$t_1$	3.0	1.0
$t_2$	3.0	1.0
$t_3$	3.0	1.0
$t_4$	3.0	1.0
$t_5$	3.0	1.0

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT B

	$B_x$	$B_y$
$t_1$	4.0	6.0
$t_2$	4.0	6.0
$t_3$	4.0	6.0
$t_4$	4.0	6.0
$t_5$	4.0	6.0

DESIGNATED FIXED  
POSITION  
POSITION DATA OF  
POINT C

	$C_x$	$C_y$
$t_1$	6.0	5.5
$t_2$	6.0	5.5
$t_3$	6.0	5.5
$t_4$	6.0	5.5
$t_5$	6.0	5.5

DESIGNATED  
MOVING POSITION  
POSITION DATA OF  
POINT D

	$D_x$	$D_y$
$t_1$	3.0	4.0
$t_2$	3.3	4.0
$t_3$	3.6	4.0
$t_4$	3.8	4.0
$t_5$	4.0	4.0

FIG. 114B

FIG. 114C

FIG. 114D

FIG. 114E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
$t_1$	78.69	56.31	90.00	-101.31	-14.04	-116.57
$t_2$	78.69	56.31	84.29	-101.31	-14.04	-109.29
$t_3$	78.69	56.31	78.69	-101.31	-14.04	-101.31
$t_4$	78.69	56.31	75.07	-101.31	-14.04	-95.71
$t_5$	78.69	56.31	71.57	-101.31	-14.04	-90.00

FIG. 114F

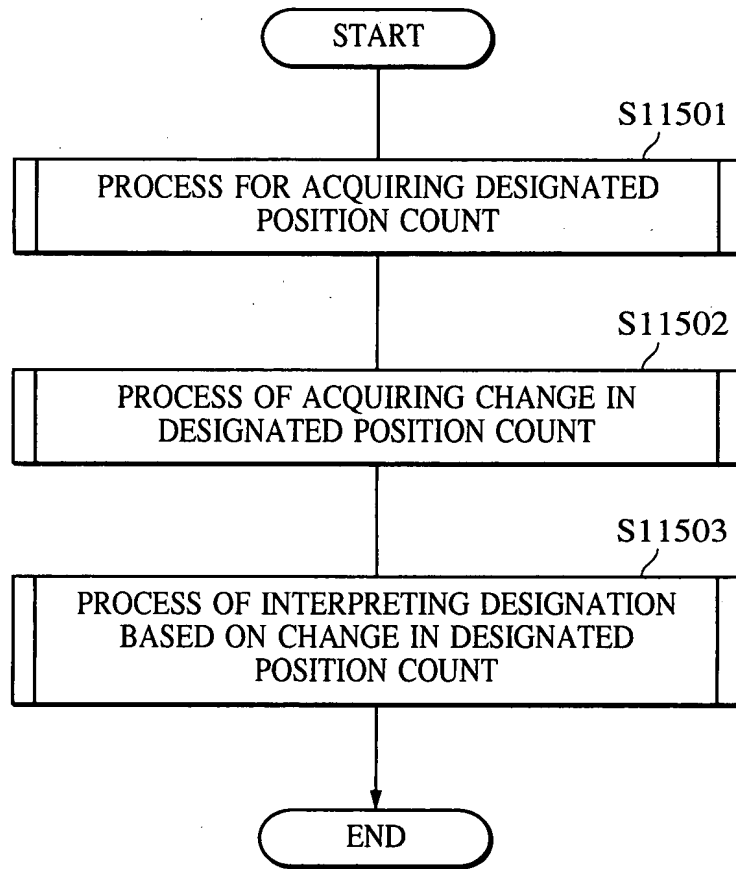


FIG. 115

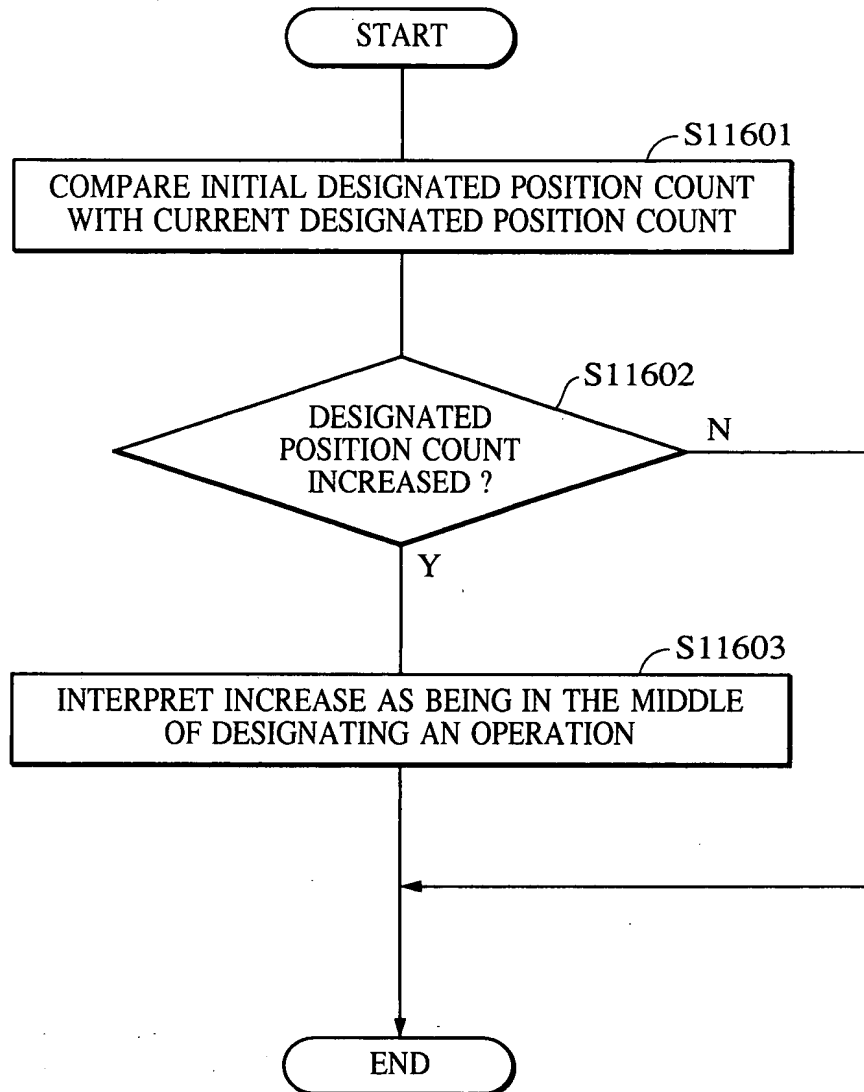


FIG. 116

[illegible]

INITIAL  
DESIGNATED  
POSITION  
POINT  $B_{t_1}$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in accordance with the describing order of the selected elements of the text.

FIG. 117A

[illegible]

DESIGNATED  
POSITION  
POINT Bt<sub>2</sub>

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, the text is generated in the determined describing order.

DESIGNATED  
POSITION  
POINT Ct<sub>2</sub>

FIG. 117B



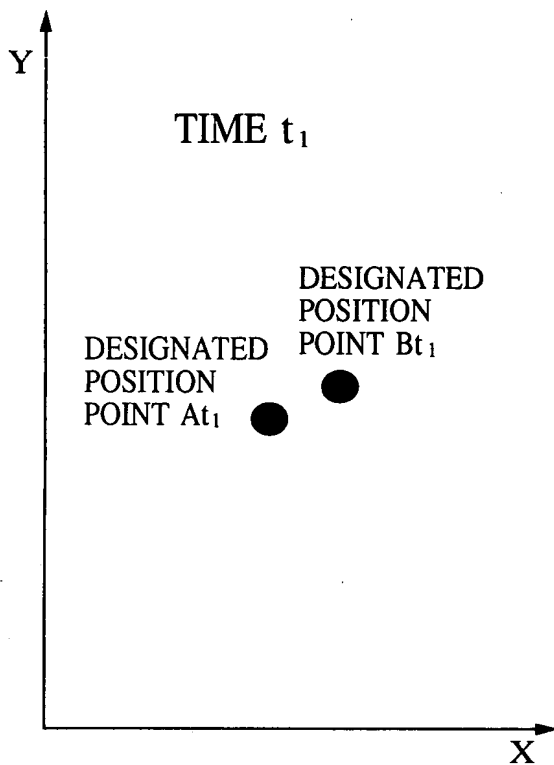


FIG. 118A

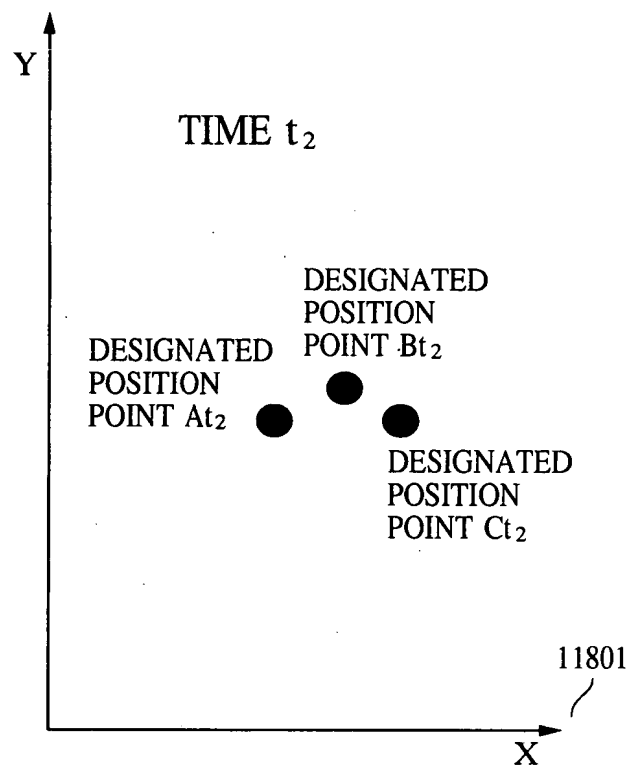


FIG. 118B

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT A

	$A_x$	$A_y$
$t_1$	3.0	3.0
$t_2$	3.0	3.0
$t_3$	3.0	3.0

FIG. 118C

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT B

	$B_x$	$B_y$
$t_1$	4.0	4.0
$t_2$	4.0	4.0
$t_3$	4.0	4.0

FIG. 118D

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT C

	$C_x$	$C_y$
$t_1$		
$t_2$	5.0	3.0
$t_3$	5.0	3.0

FIG. 118E

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
$t_1$	2	0
$t_2$	3	1
$t_3$	3	1

FIG. 118F

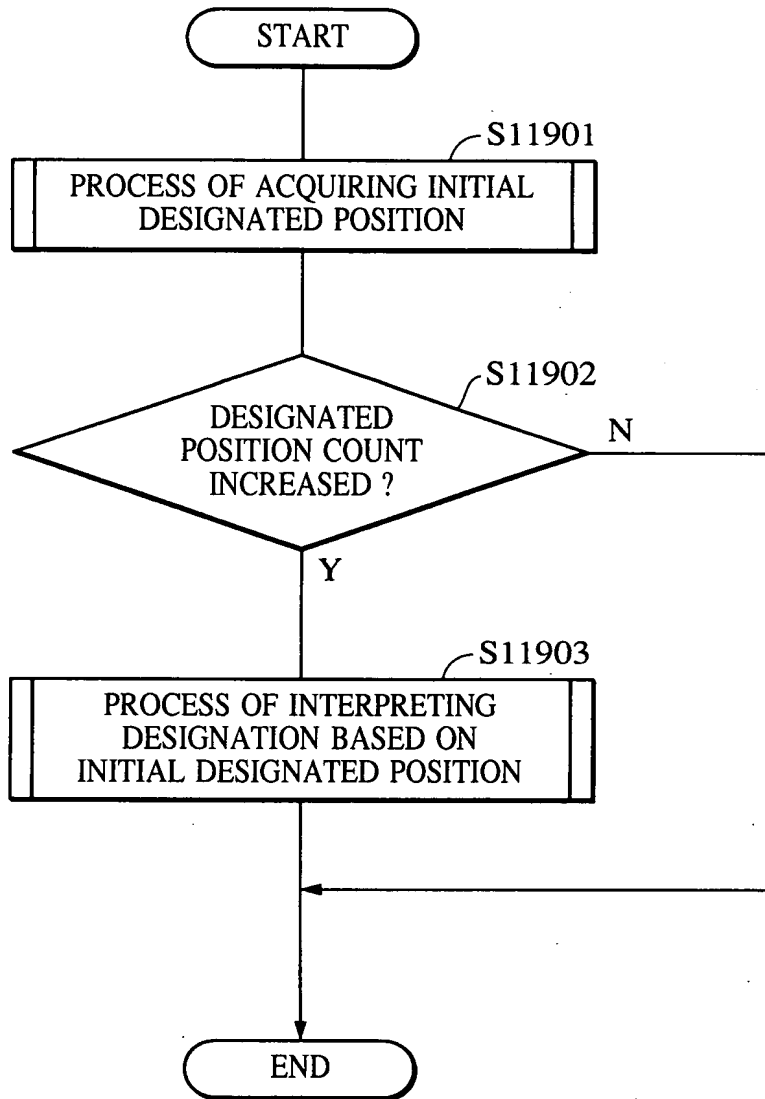


FIG. 119

```
graph TD; START([START]) --> S12001{S12001  
SINGLE DESIGNATED POSITION?}; S12001 -- Y --> S12002[INTERPRET DESIGNATED OPERATION  
AS A ROTATION OPERATION ABOUT  
DESIGNATED POSITION]; S12001 -- N --> S12002; S12002 --> END([END]);
```

The flowchart, labeled S12000, begins with a START terminal. It proceeds to a decision diamond S12001, which asks "SINGLE DESIGNATED POSITION?". If the answer is "Y" (Yes), the flow goes to process block S12002. If the answer is "N" (No), the flow also goes to process block S12002. Process block S12002 contains the instruction "INTERPRET DESIGNATED OPERATION AS A ROTATION OPERATION ABOUT DESIGNATED POSITION". After this block, the flow proceeds to an END terminal.

5

TIME  $t_1$

INITIAL  
DESIGNATED  
POSITION  
POINT A(3,3)

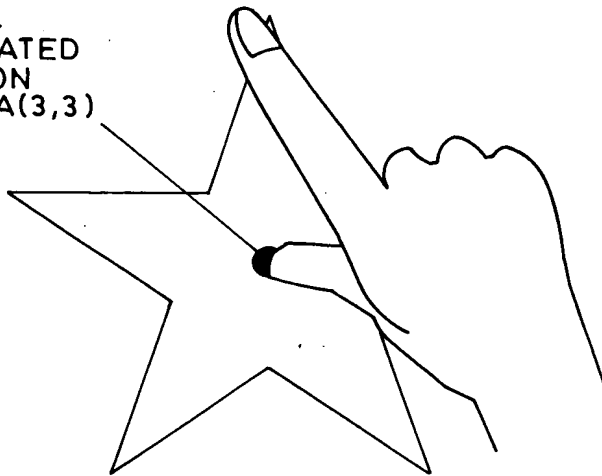


FIG. 12IA

TIME  $t_5$

DESIGNATED  
POSITION  
POINT Bt3

DESIGNATED  
POSITION  
POINT Bt5

DESIGNATED  
POSITION  
POINT A(3,3)

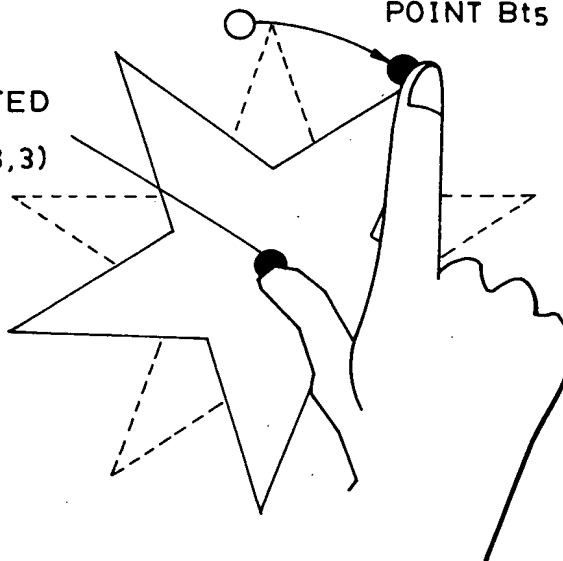


FIG. 12IB

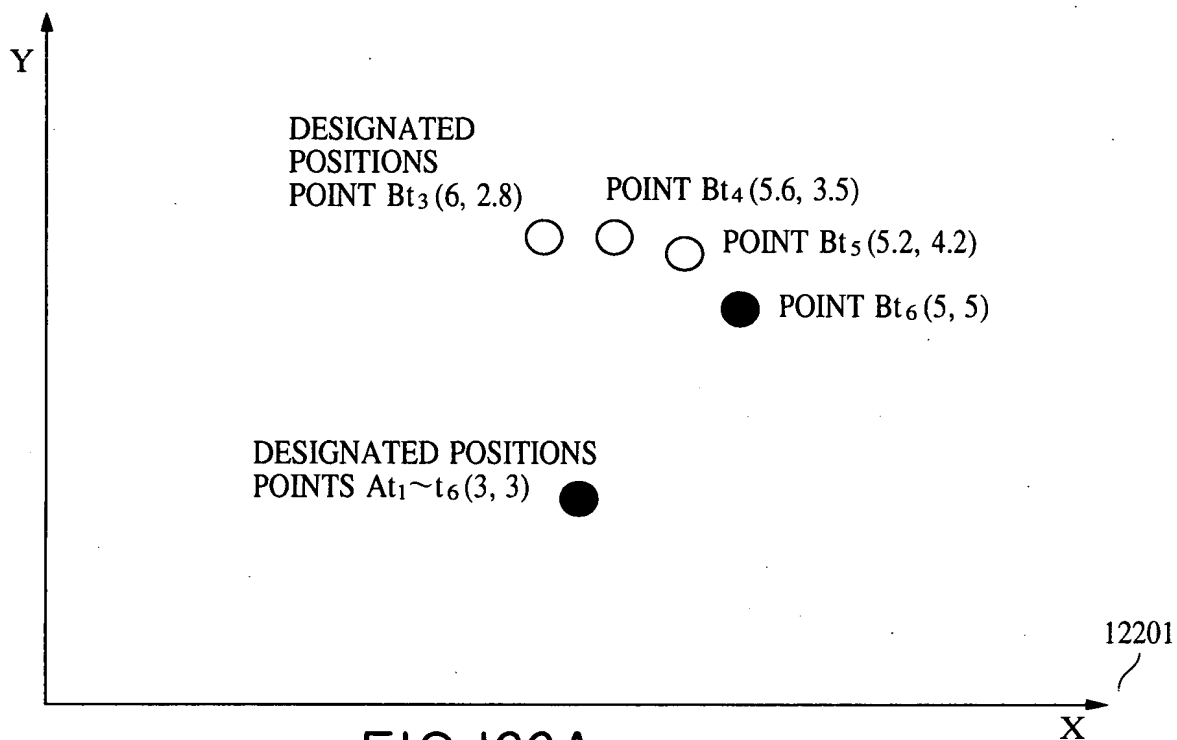


FIG. 122A

DESIGNATED POSITION  
POSITION DATA OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3.0	3.0
t <sub>2</sub>	3.0	3.0
t <sub>3</sub>	3.0	3.0
t <sub>4</sub>	3.0	3.0
t <sub>5</sub>	3.0	3.0
t <sub>6</sub>	3.0	3.0

FIG. 122B

DESIGNATED POSITION  
POSITION DATA OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>		
t <sub>2</sub>		
t <sub>3</sub>	6.0	2.8
t <sub>4</sub>	5.6	3.5
t <sub>5</sub>	5.2	4.2
t <sub>6</sub>	5.0	5.0

FIG. 122C

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
t <sub>1</sub>	1	0
t <sub>2</sub>	1	0
t <sub>3</sub>	2	1
t <sub>4</sub>	2	1
t <sub>5</sub>	2	1
t <sub>6</sub>	2	1

FIG. 122D

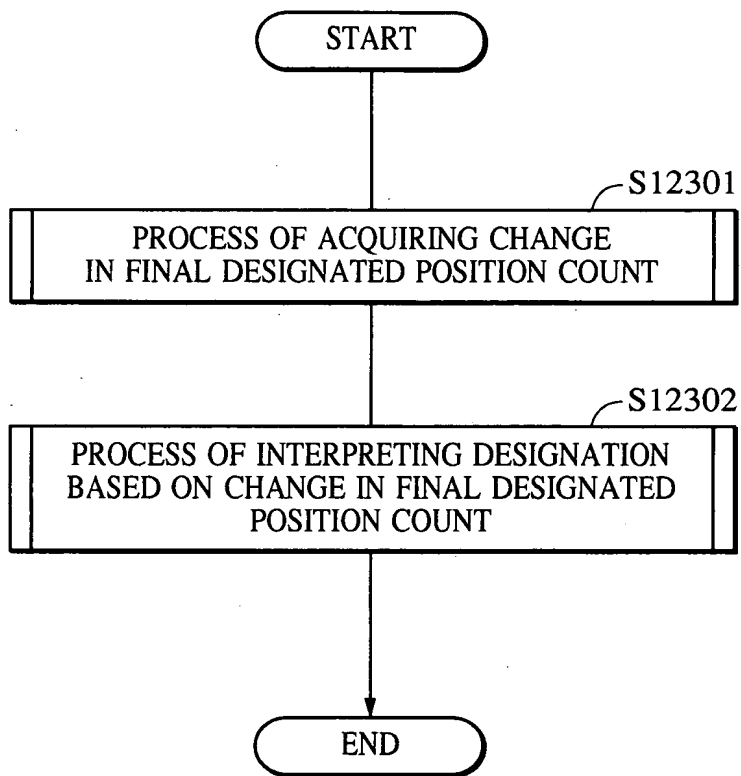


FIG. 123

```

graph TD
    START([START]) --> S12401{DESIGNATED  
POSITION COUNT  
DECREASED ?}
    S12401 -- Y --> S12402[INTERPRET DESIGNATION AS  
CANCEL TO IMMEDIATELY  
PRECEDING OPERATION]
    S12401 -- N --> S12403[INTERPRET DESIGNATION AS  
APPROVAL TO IMMEDIATELY  
PRECEDING OPERATION]
    S12402 --> END([END])
    S12403 --> END

```

FIG. 124

TIME  $t_1$

DESIGNATED  
POSITION  
POINT  $At_1$

DESIGNATED  
POSITION  
POINT  $Bt_1$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in the determined describing order.

DESIGNATED  
POSITION  
POINT  $Ct_1$

FIG. 125A

TIME  $t_2$

DESIGNATED  
POSITION  
POINT  $At_2$

DESIGNATED  
POSITION  
POINT  $Bt_2$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in the determined describing order.

FIG. 125B



FIG. 126A

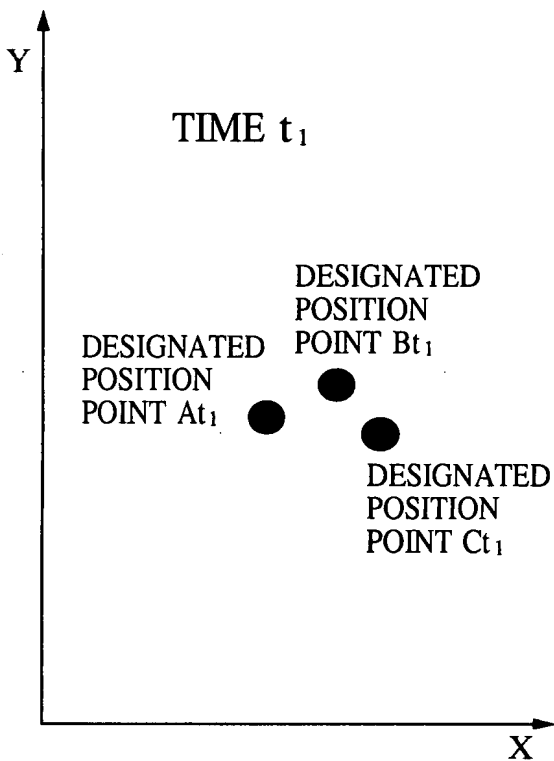


FIG. 126A

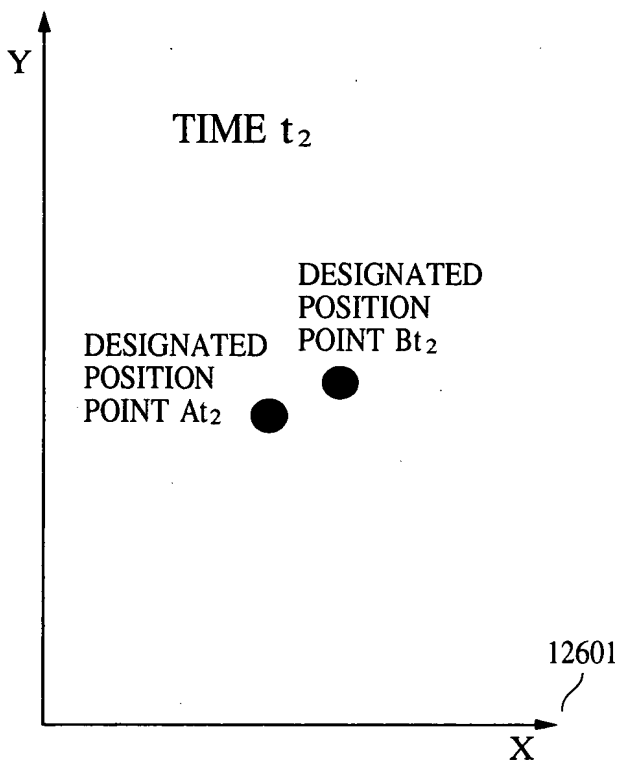


FIG. 126B

DESIGNATED POSITION  
POSITION DATA OF  
POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3.0	3.0
t <sub>2</sub>	3.0	3.0

FIG. 126C

DESIGNATED POSITION  
POSITION DATA OF  
POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	4.0
t <sub>2</sub>	4.0	4.0

FIG. 126D

DESIGNATED POSITION  
POSITION DATA OF  
POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>	5.0	3.0
t <sub>2</sub>		

FIG. 126E

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
t <sub>1</sub>	3	0
t <sub>2</sub>	2	-1

FIG. 126F

12603

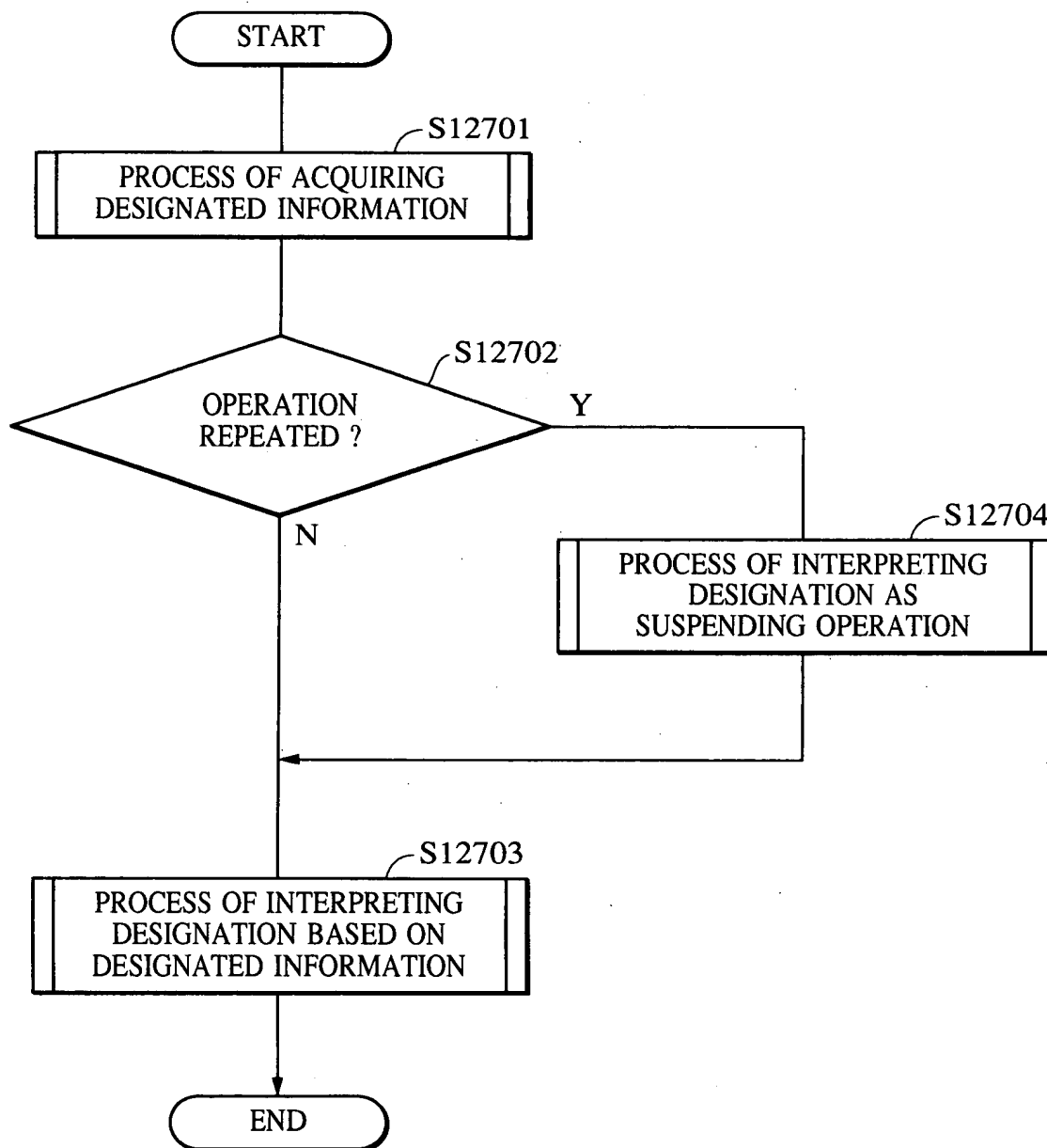


FIG. 127

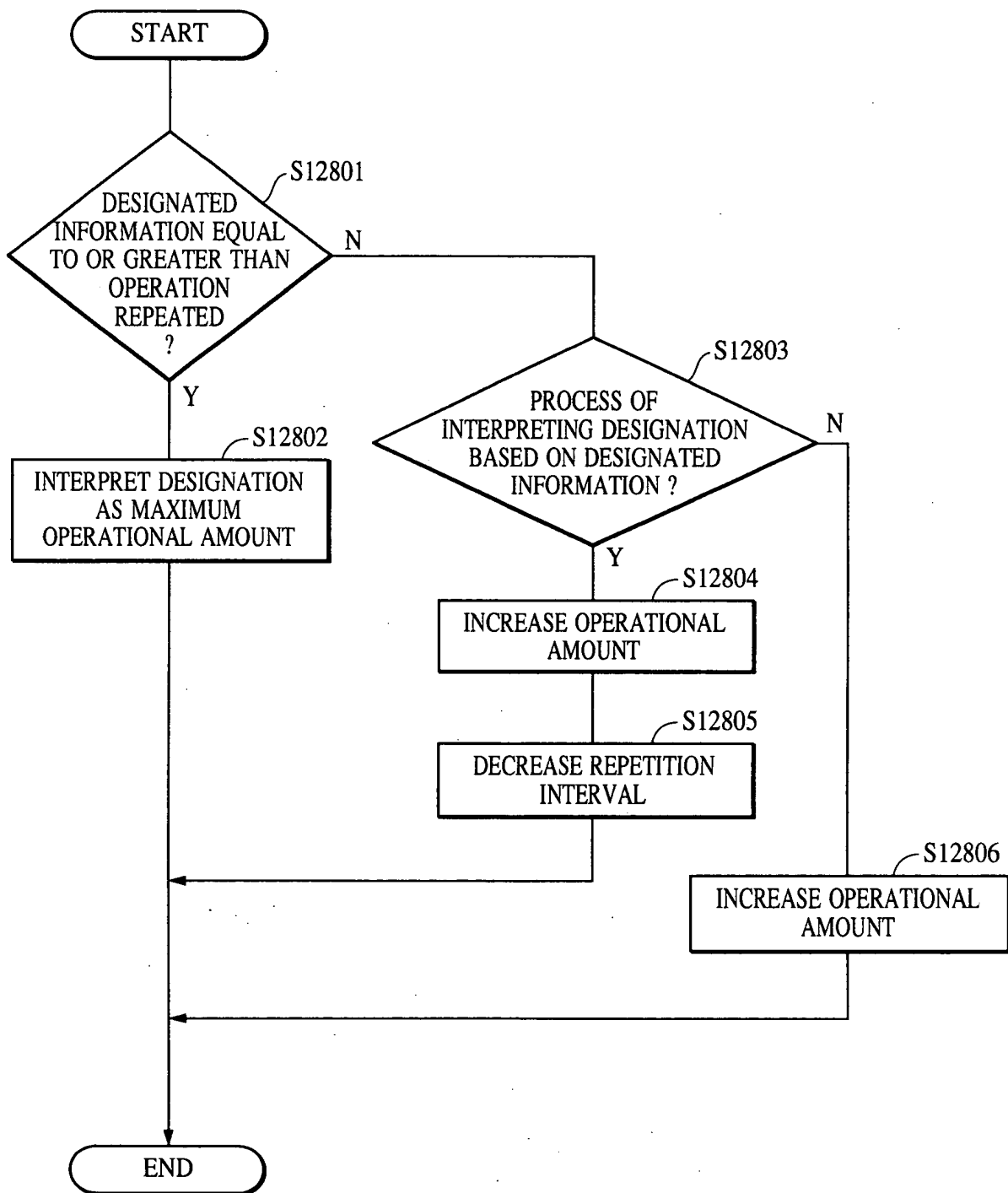


FIG. 128

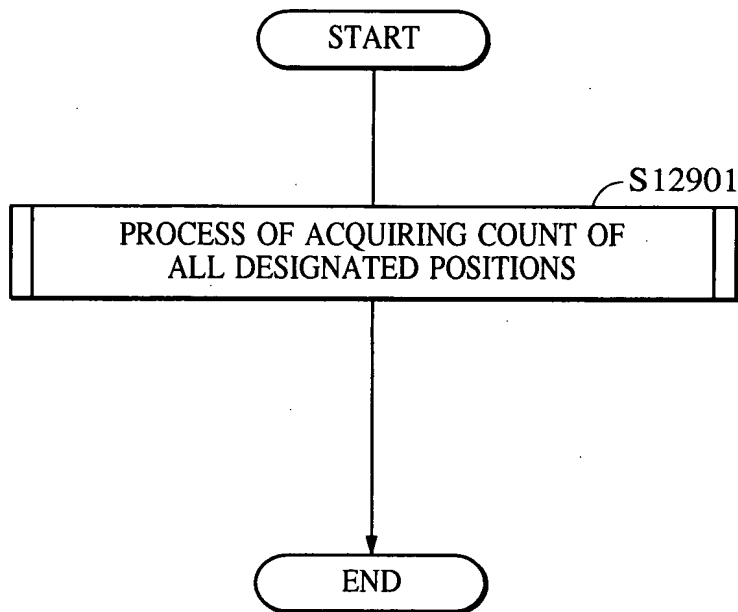


FIG. 129

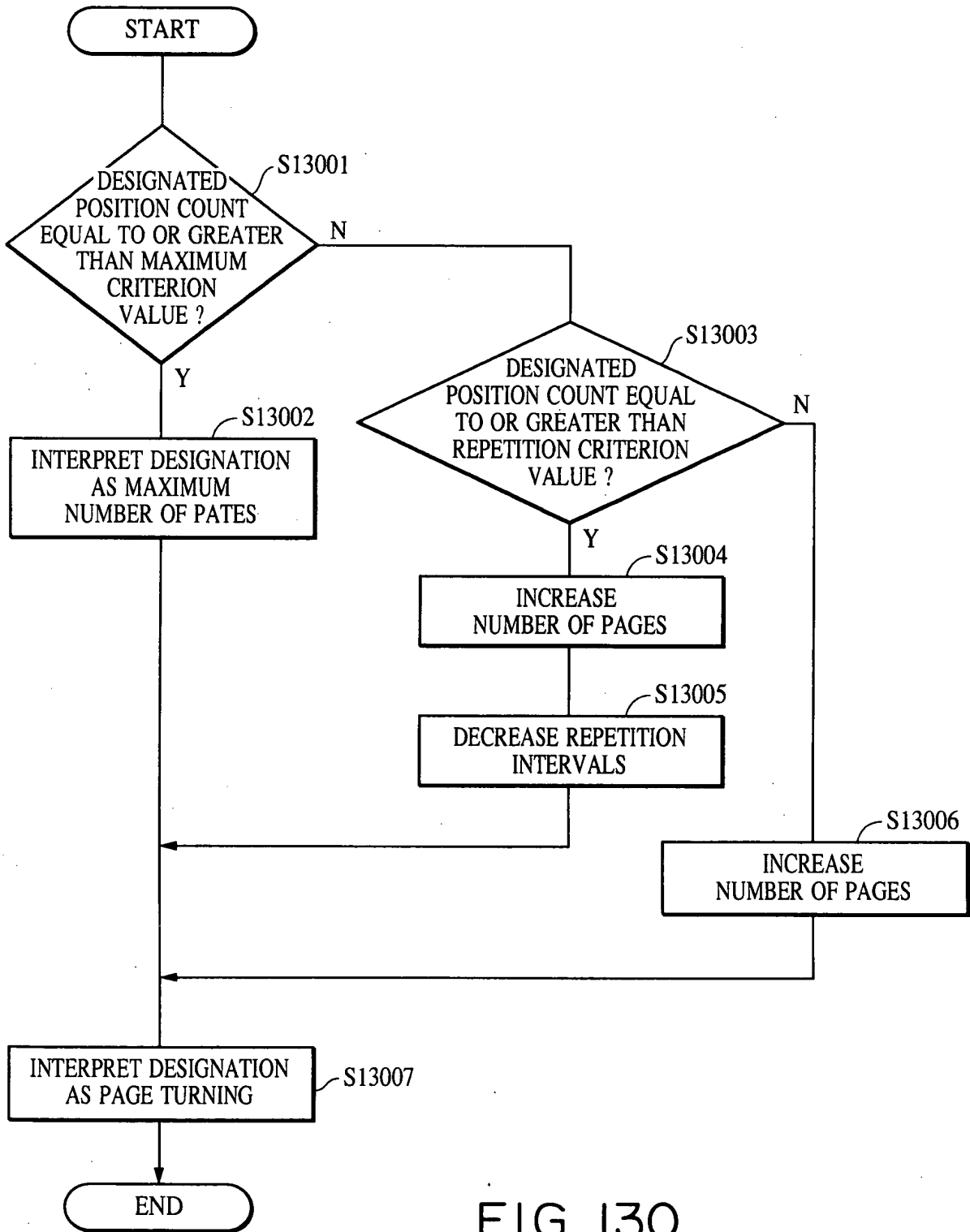


FIG. 130

PAGE TURNING

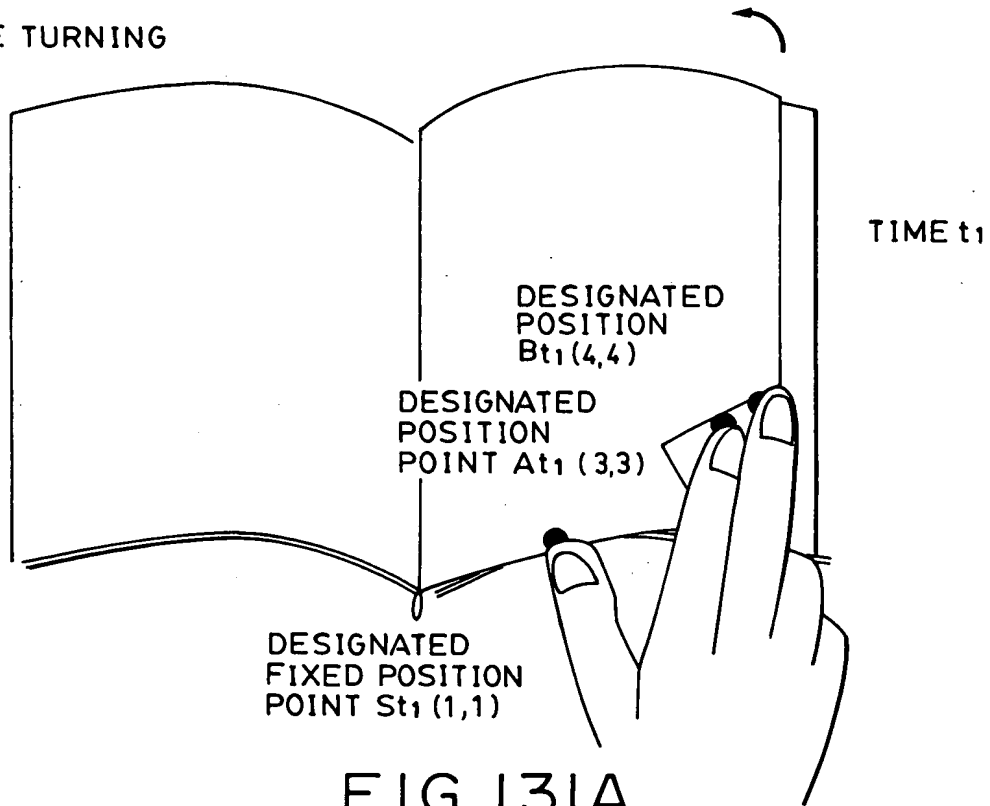


FIG. 131A

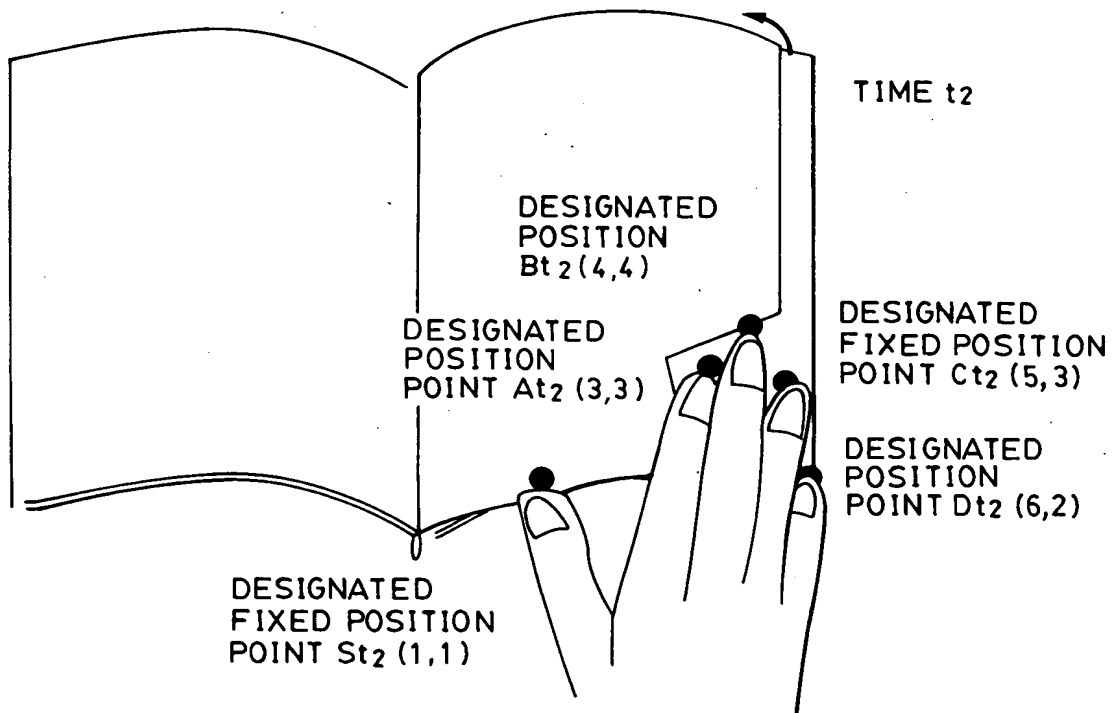


FIG. 131B

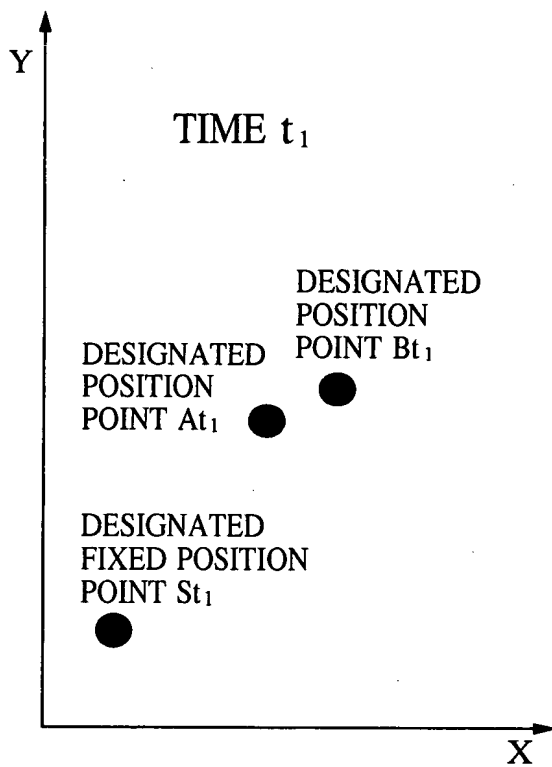


FIG. 132A

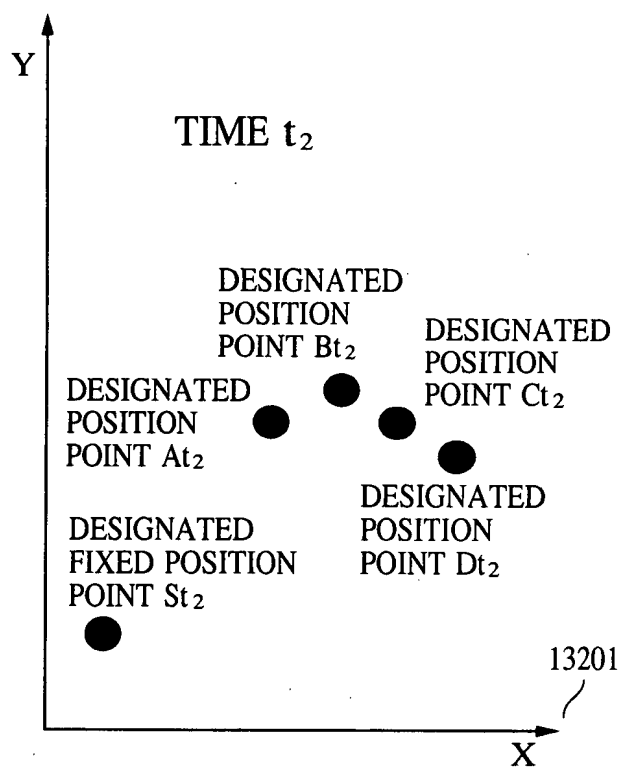


FIG. 132B

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT S

	S <sub>x</sub>	S <sub>y</sub>
t <sub>1</sub>	1.0	1.0
t <sub>2</sub>	1.0	1.0

FIG. 132C

DESIGNATED  
POSITION  
POSITION DATA  
OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3.0	3.0
t <sub>2</sub>	3.0	3.0

FIG. 132D

DESIGNATED  
POSITION  
POSITION DATA  
OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	4.0
t <sub>2</sub>	4.0	4.0

FIG. 132E

DESIGNATED  
POSITION  
POSITION DATA  
OF POINT C

	C <sub>x</sub>	C <sub>y</sub>
t <sub>1</sub>		
t <sub>2</sub>	5.0	3.0

FIG. 132F

DESIGNATED  
POSITION  
POSITION DATA  
OF POINT D

	D <sub>x</sub>	D <sub>y</sub>
t <sub>1</sub>		
t <sub>2</sub>	6.0	2.0

FIG. 132G

13202

DATA OF DESIGNATED POSITION COUNT

	INCREASE IN NUMBER	TOTAL NUMBER
t <sub>1</sub>	2	3
t <sub>2</sub>	2	5

13203

FIG. 132H

FIG. 133

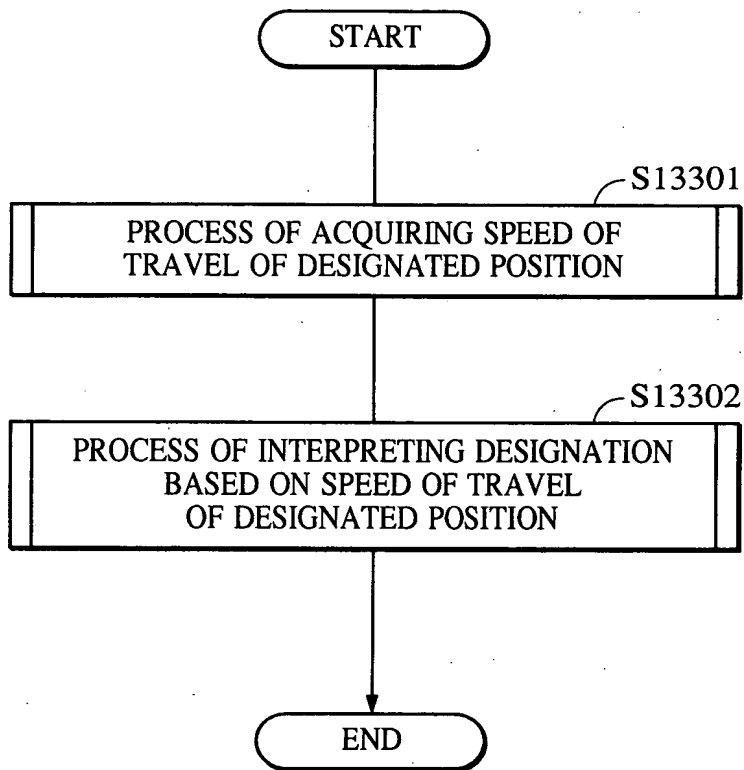


FIG. 133



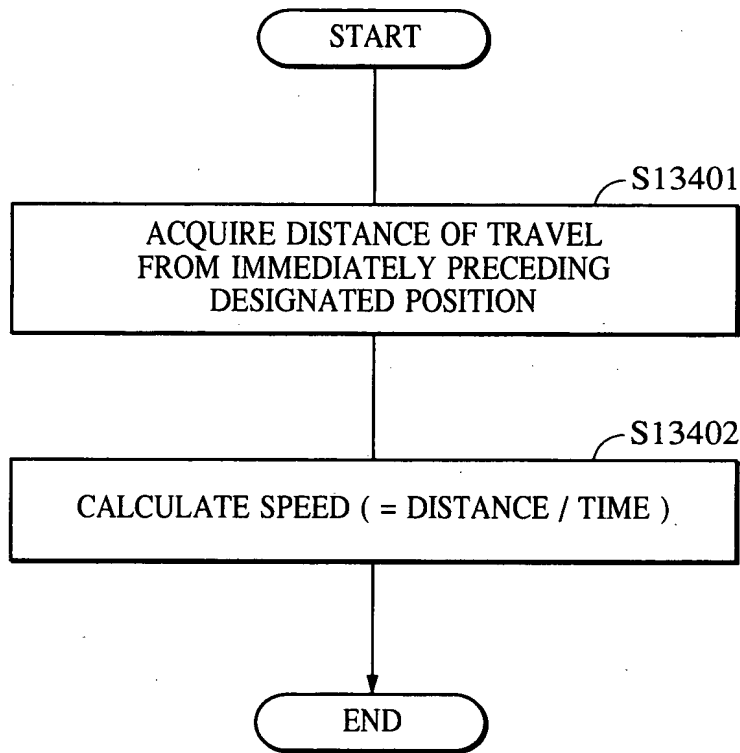


FIG. 134

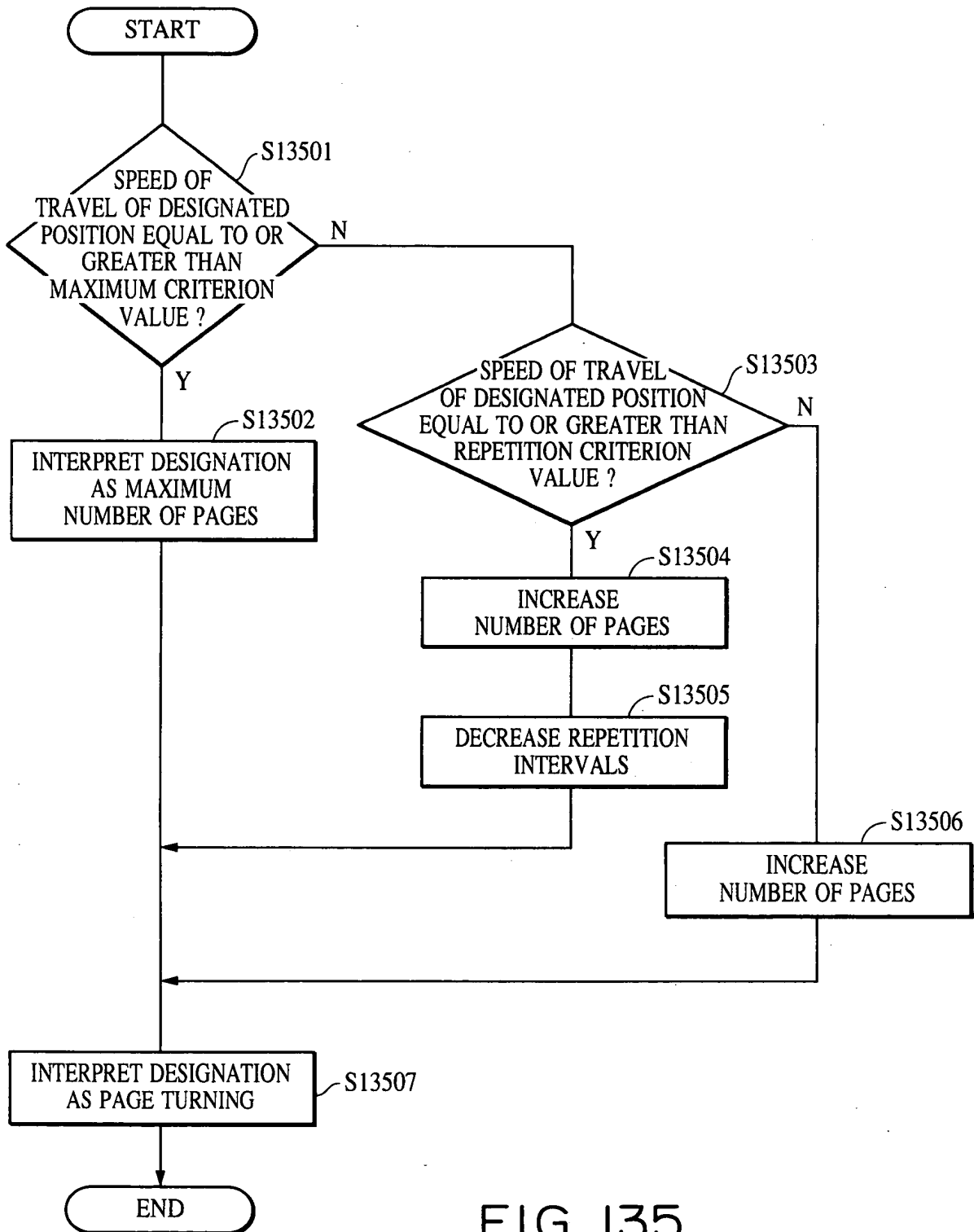
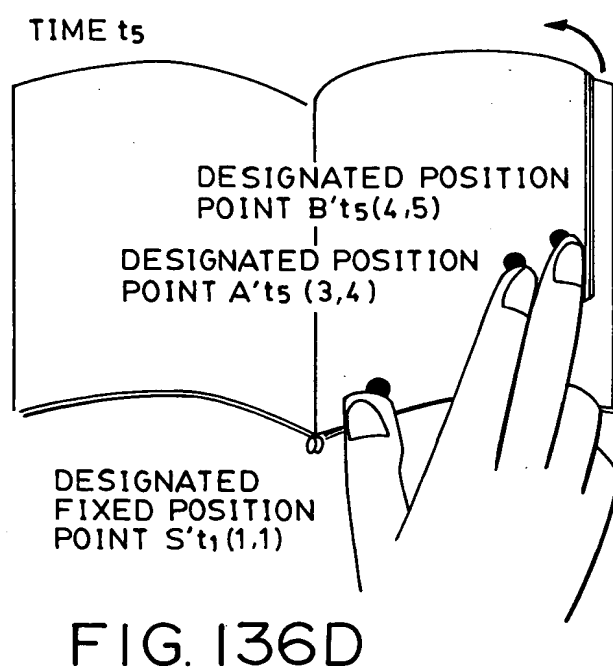
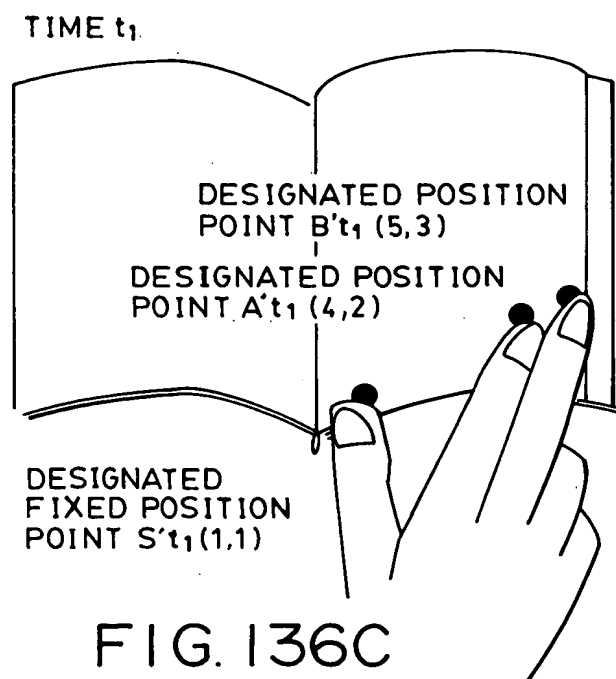
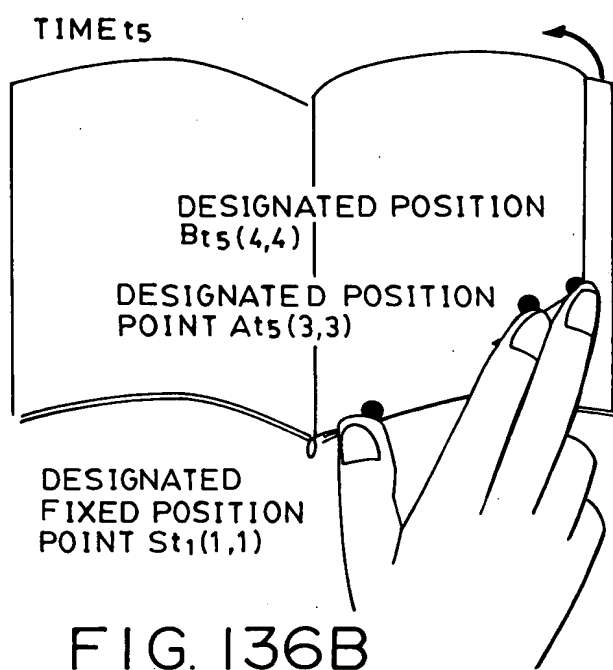
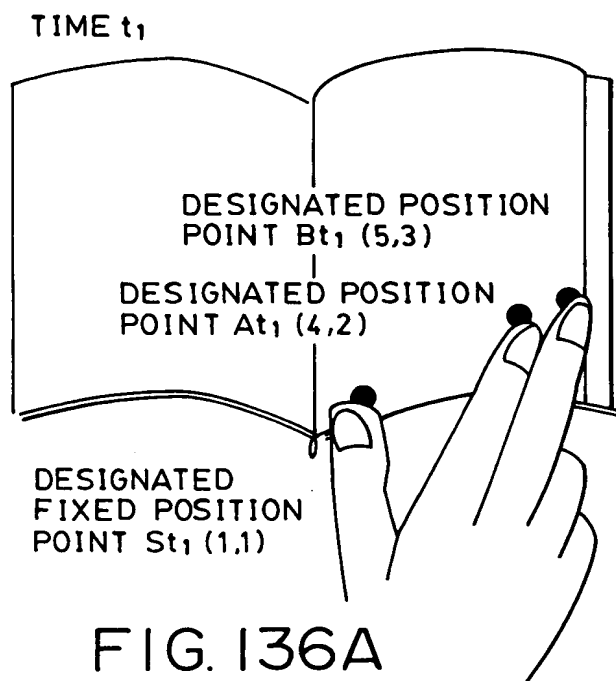


FIG. 135

# PAGE TURNING



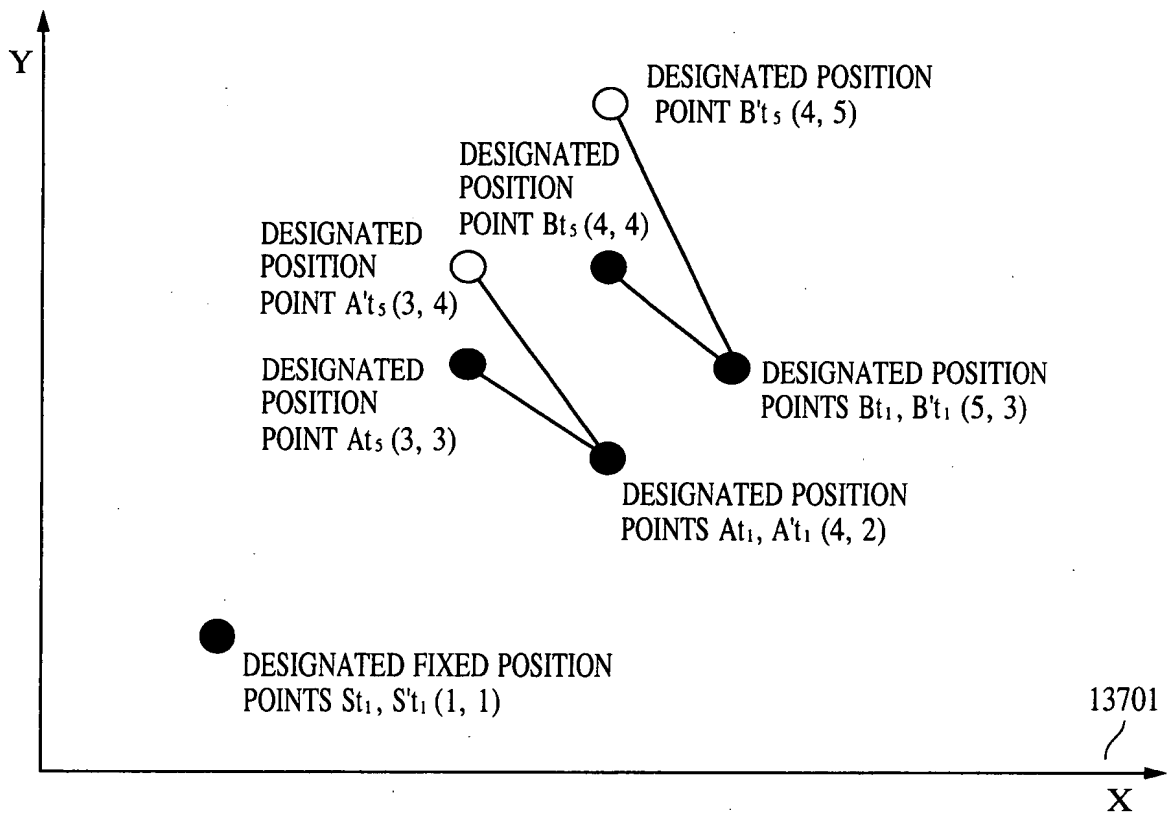


FIG. 137A

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	DESIGNATED POSITION POSITION DATA OF POINT A	DESIGNATED POSITION POSITION DATA OF POINT B	DESIGNATED POSITION POSITION DATA OF POINT A'	DESIGNATED POSITION POSITION DATA OF POINT B'
$S_x$ $S_y$	$A_x$ $A_y$	$B_x$ $B_y$	$A'_x$ $A'_y$	$B'_x$ $B'_y$
$t_1$ 1.0 1.0	$t_1$ 4.0 2.0	$t_1$ 5.0 3.0	$t_1$ 4.0 2.0	$t_1$ 5.0 3.0
$t_2$ 1.0 1.0	$t_2$ 3.8 2.2	$t_2$ 4.8 3.2	$t_2$ 3.8 2.4	$t_2$ 4.8 3.4
$t_3$ 1.0 1.0	$t_3$ 3.6 2.4	$t_3$ 4.6 3.4	$t_3$ 3.6 2.8	$t_3$ 4.6 3.8
$t_4$ 1.0 1.0	$t_4$ 3.4 2.6	$t_4$ 4.4 3.6	$t_4$ 3.4 3.2	$t_4$ 4.4 4.2
$t_5$ 1.0 1.0	$t_5$ 3.0 3.0	$t_5$ 4.0 4.0	$t_5$ 3.0 4.0	$t_5$ 4.0 5.0

FIG. 137B FIG. 137C FIG. 137D FIG. 137E FIG. 137F

DATA OF SPEED OF TRAVEL OF DESIGNATED POSITION

SPEED OF POINT A	RATE OF INCREASE OF SPEED OF POINT A	SPEED OF POINT B	RATE OF INCREASE OF SPEED OF POINT B	SPEED OF POINT A'	RATE OF INCREASE OF SPEED OF POINT A'	SPEED OF POINT B'	RATE OF INCREASE OF SPEED OF POINT B'
$t_1$ 0.000		0.000	0.0	0.000		0.000	
$t_2$ 0.283		0.283		0.447		0.447	
$t_3$ 0.283	1.00	0.283	1.00	0.447	1.00	0.447	1.00
$t_4$ 0.283	1.00	0.283	1.00	0.447	1.00	0.447	1.00
$t_5$ 0.354	1.25	0.283	1.00	0.559	1.25	0.559	1.25

FIG. 137G

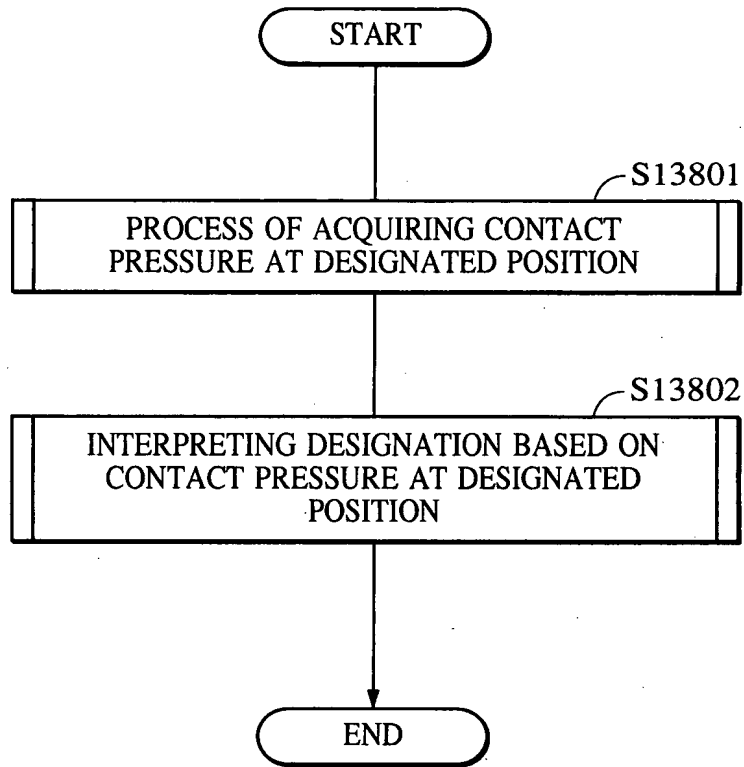


FIG. 138

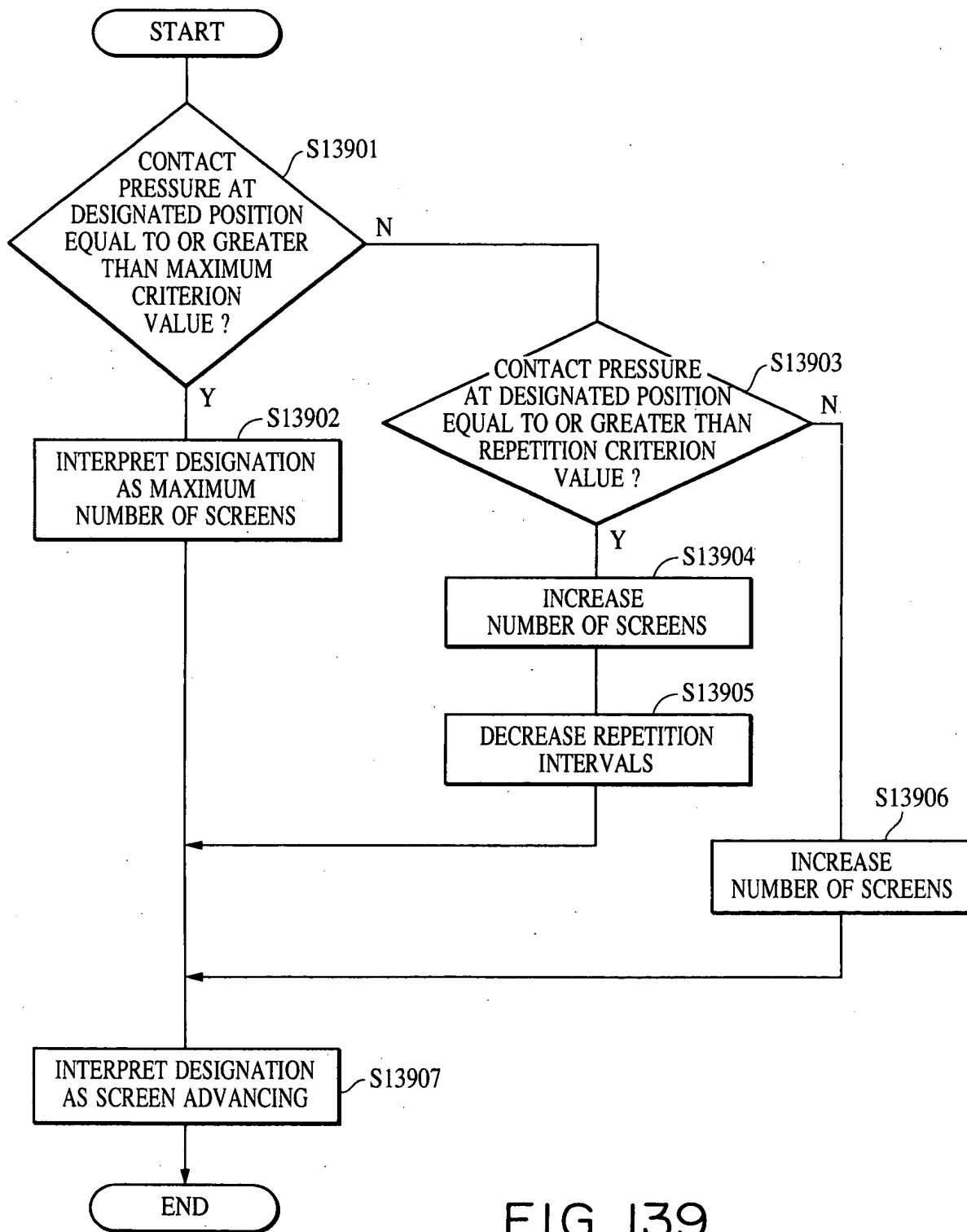


FIG. 139

# SCREEN SHIFTING

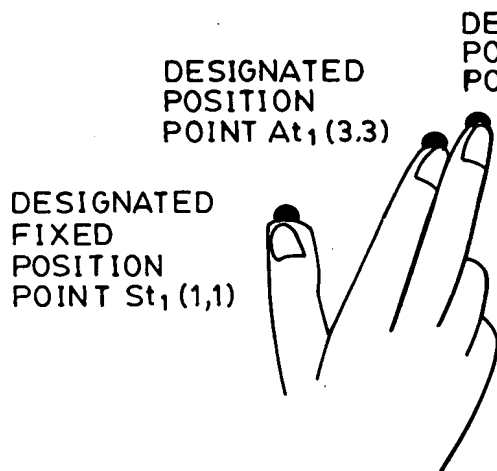


FIG. 140A

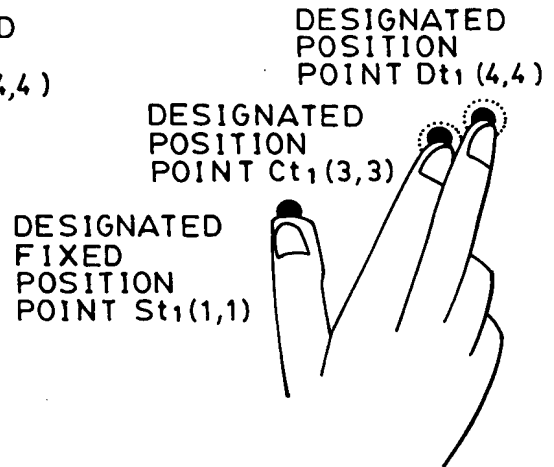


FIG. 140C

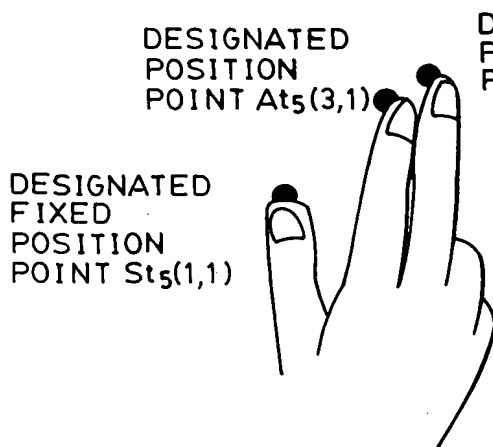


FIG. 140B

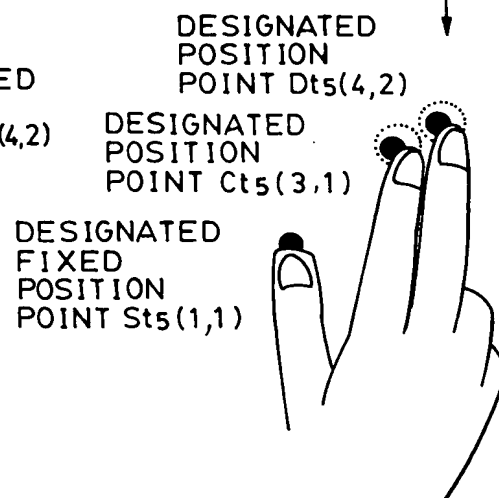


FIG. 140D



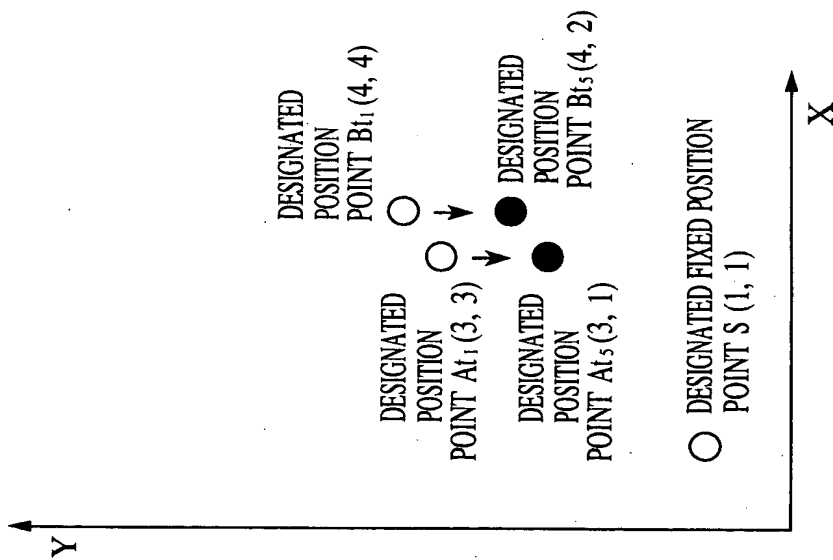


FIG. 14A

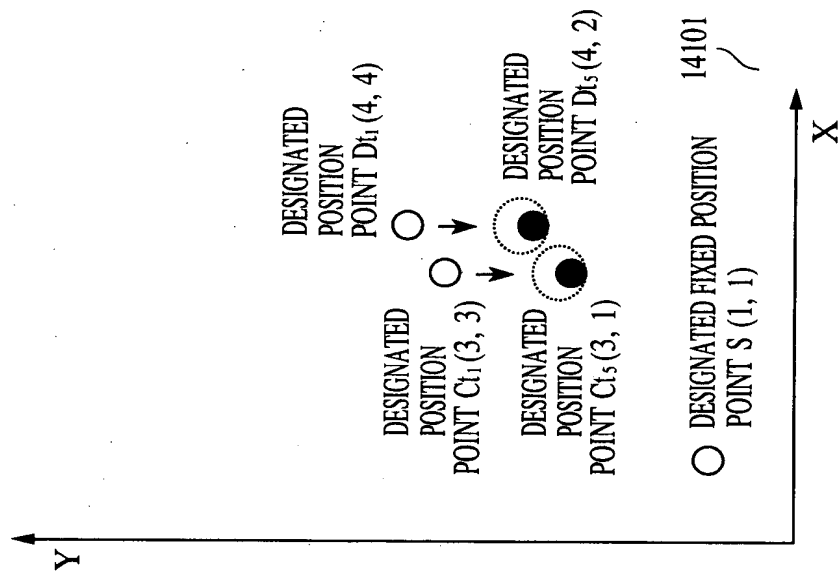


FIG. 14B

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	DESIGNATED POSITION POSITION DATA OF POINT A	DESIGNATED POSITION POSITION DATA OF POINT B	DESIGNATED POSITION POSITION DATA OF POINT C	DESIGNATED POSITION POSITION DATA OF POINT D																																																												
<table><tr><th>S<sub>x</sub></th><th>S<sub>y</sub></th></tr><tr><td>t<sub>1</sub></td><td>1.0</td></tr><tr><td>t<sub>2</sub></td><td>1.0</td></tr><tr><td>t<sub>3</sub></td><td>1.0</td></tr><tr><td>t<sub>4</sub></td><td>1.0</td></tr><tr><td>t<sub>5</sub></td><td>1.0</td></tr></table>	S <sub>x</sub>	S <sub>y</sub>	t <sub>1</sub>	1.0	t <sub>2</sub>	1.0	t <sub>3</sub>	1.0	t <sub>4</sub>	1.0	t <sub>5</sub>	1.0	<table><tr><th>A<sub>x</sub></th><th>A<sub>y</sub></th></tr><tr><td>t<sub>1</sub></td><td>3.0</td></tr><tr><td>t<sub>2</sub></td><td>3.0</td></tr><tr><td>t<sub>3</sub></td><td>3.0</td></tr><tr><td>t<sub>4</sub></td><td>3.0</td></tr><tr><td>t<sub>5</sub></td><td>3.0</td></tr></table>	A <sub>x</sub>	A <sub>y</sub>	t <sub>1</sub>	3.0	t <sub>2</sub>	3.0	t <sub>3</sub>	3.0	t <sub>4</sub>	3.0	t <sub>5</sub>	3.0	<table><tr><th>B<sub>x</sub></th><th>B<sub>y</sub></th></tr><tr><td>t<sub>1</sub></td><td>4.0</td></tr><tr><td>t<sub>2</sub></td><td>4.0</td></tr><tr><td>t<sub>3</sub></td><td>4.0</td></tr><tr><td>t<sub>4</sub></td><td>4.0</td></tr><tr><td>t<sub>5</sub></td><td>4.0</td></tr></table>	B <sub>x</sub>	B <sub>y</sub>	t <sub>1</sub>	4.0	t <sub>2</sub>	4.0	t <sub>3</sub>	4.0	t <sub>4</sub>	4.0	t <sub>5</sub>	4.0	<table><tr><th>C<sub>x</sub></th><th>C<sub>y</sub></th></tr><tr><td>t<sub>1</sub></td><td>3.0</td></tr><tr><td>t<sub>2</sub></td><td>3.0</td></tr><tr><td>t<sub>3</sub></td><td>3.0</td></tr><tr><td>t<sub>4</sub></td><td>3.0</td></tr><tr><td>t<sub>5</sub></td><td>3.0</td></tr></table>	C <sub>x</sub>	C <sub>y</sub>	t <sub>1</sub>	3.0	t <sub>2</sub>	3.0	t <sub>3</sub>	3.0	t <sub>4</sub>	3.0	t <sub>5</sub>	3.0	<table><tr><th>D<sub>x</sub></th><th>D<sub>y</sub></th></tr><tr><td>t<sub>1</sub></td><td>4.0</td></tr><tr><td>t<sub>2</sub></td><td>4.0</td></tr><tr><td>t<sub>3</sub></td><td>4.0</td></tr><tr><td>t<sub>4</sub></td><td>4.0</td></tr><tr><td>t<sub>5</sub></td><td>4.0</td></tr></table>	D <sub>x</sub>	D <sub>y</sub>	t <sub>1</sub>	4.0	t <sub>2</sub>	4.0	t <sub>3</sub>	4.0	t <sub>4</sub>	4.0	t <sub>5</sub>	4.0
S <sub>x</sub>	S <sub>y</sub>																																																															
t <sub>1</sub>	1.0																																																															
t <sub>2</sub>	1.0																																																															
t <sub>3</sub>	1.0																																																															
t <sub>4</sub>	1.0																																																															
t <sub>5</sub>	1.0																																																															
A <sub>x</sub>	A <sub>y</sub>																																																															
t <sub>1</sub>	3.0																																																															
t <sub>2</sub>	3.0																																																															
t <sub>3</sub>	3.0																																																															
t <sub>4</sub>	3.0																																																															
t <sub>5</sub>	3.0																																																															
B <sub>x</sub>	B <sub>y</sub>																																																															
t <sub>1</sub>	4.0																																																															
t <sub>2</sub>	4.0																																																															
t <sub>3</sub>	4.0																																																															
t <sub>4</sub>	4.0																																																															
t <sub>5</sub>	4.0																																																															
C <sub>x</sub>	C <sub>y</sub>																																																															
t <sub>1</sub>	3.0																																																															
t <sub>2</sub>	3.0																																																															
t <sub>3</sub>	3.0																																																															
t <sub>4</sub>	3.0																																																															
t <sub>5</sub>	3.0																																																															
D <sub>x</sub>	D <sub>y</sub>																																																															
t <sub>1</sub>	4.0																																																															
t <sub>2</sub>	4.0																																																															
t <sub>3</sub>	4.0																																																															
t <sub>4</sub>	4.0																																																															
t <sub>5</sub>	4.0																																																															

14102

14102

FIG. 14C FIG. 14D FIG. 14E FIG. 14F FIG. 14G

DATA OF CONTACT PRESSURE AT DESIGNATED POSITION

	CONTACT PRESSURE AT POINT S	CONTACT PRESSURE AT POINT A	CONTACT PRESSURE AT POINT B	CONTACT PRESSURE AT POINT C	CONTACT PRESSURE AT POINT D
t <sub>1</sub>	100	100	100	100	100
t <sub>2</sub>	105	105	105	140	140
t <sub>3</sub>	110	110	110	160	160
t <sub>4</sub>	105	105	105	190	190
t <sub>5</sub>	100	100	100	210	210

14103

FIG. 14H

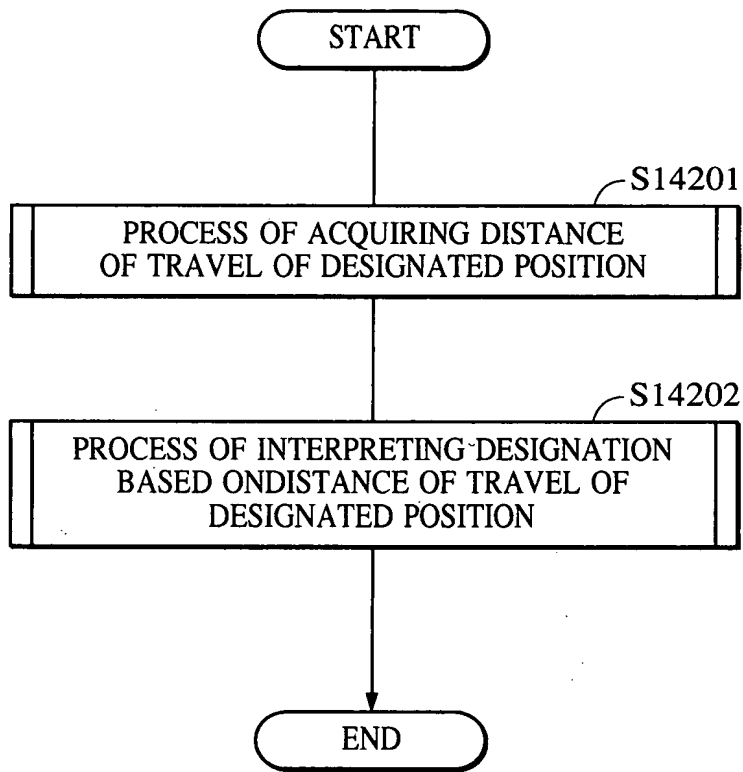


FIG. 142

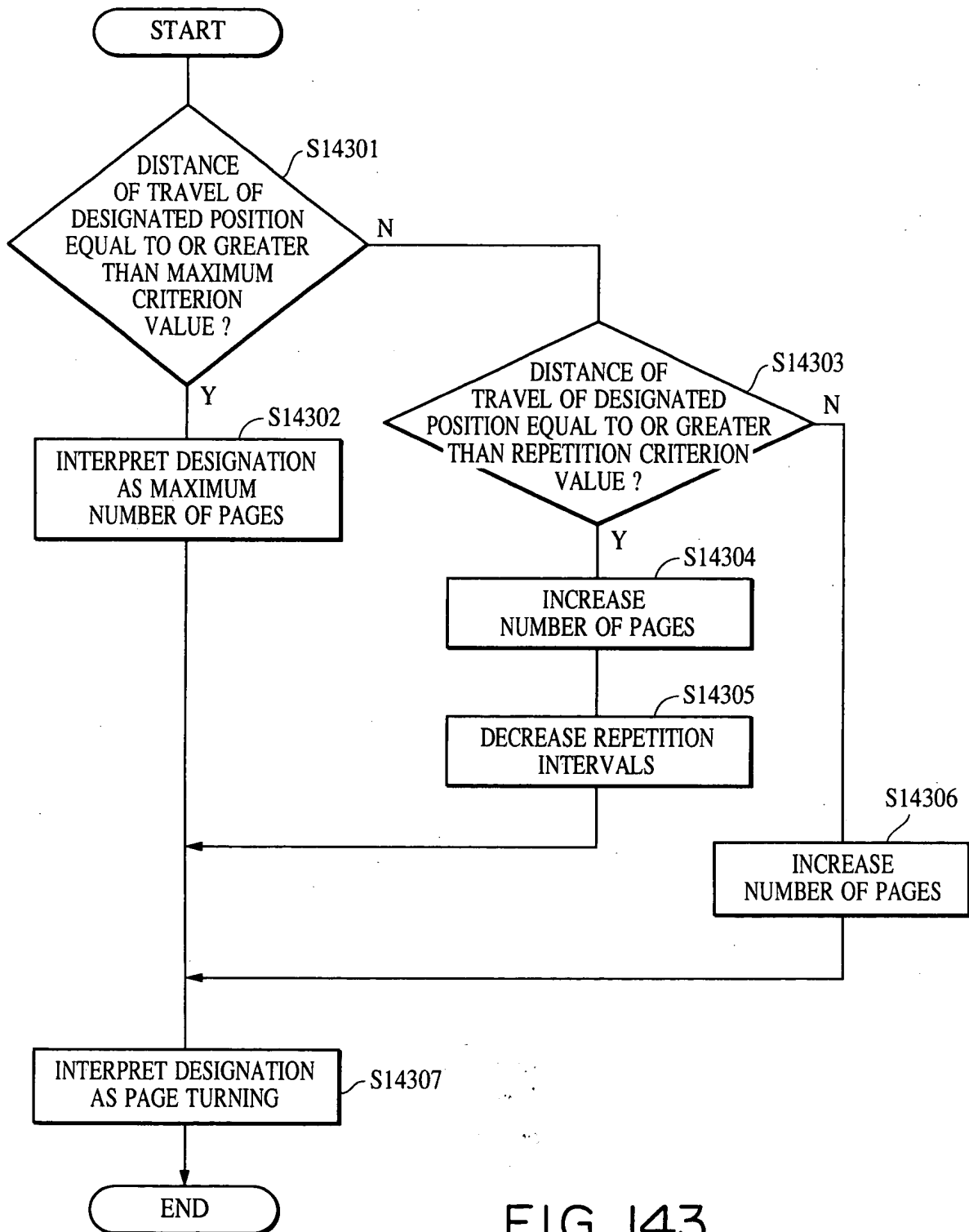
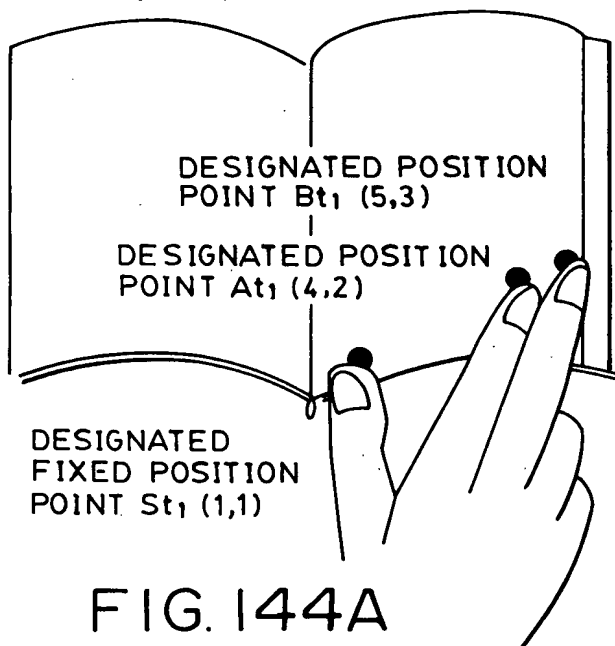


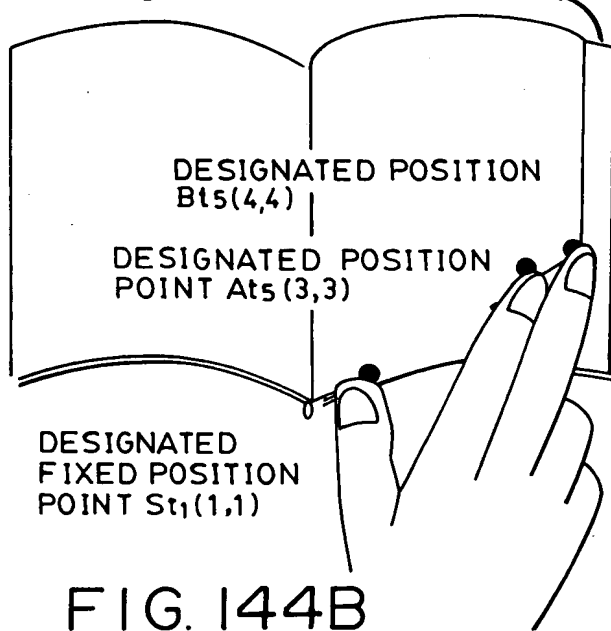
FIG. 143

# PAGE TURNING

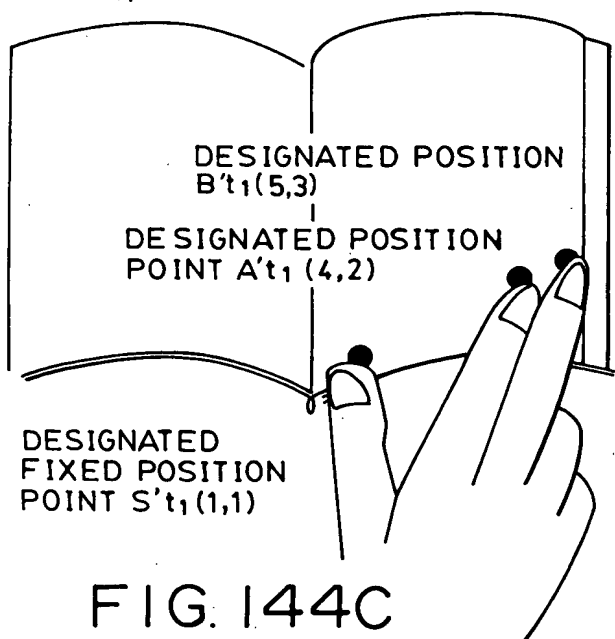
TIME  $t_1$



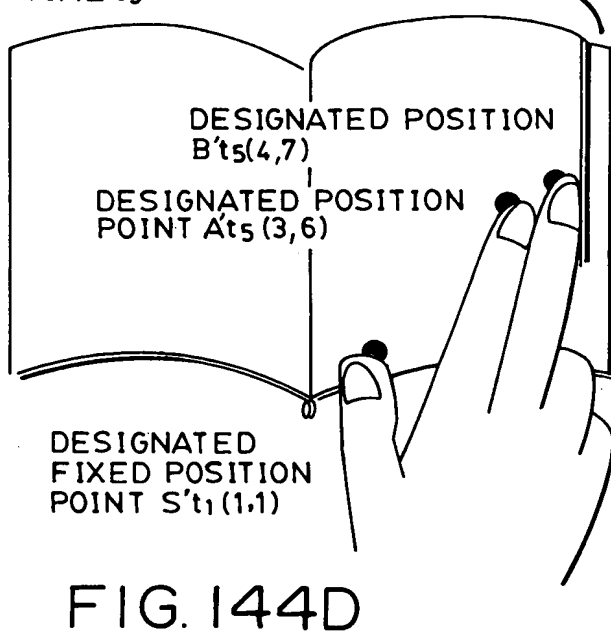
TIME  $t_5$



TIME  $t_1$



TIME  $t_5$



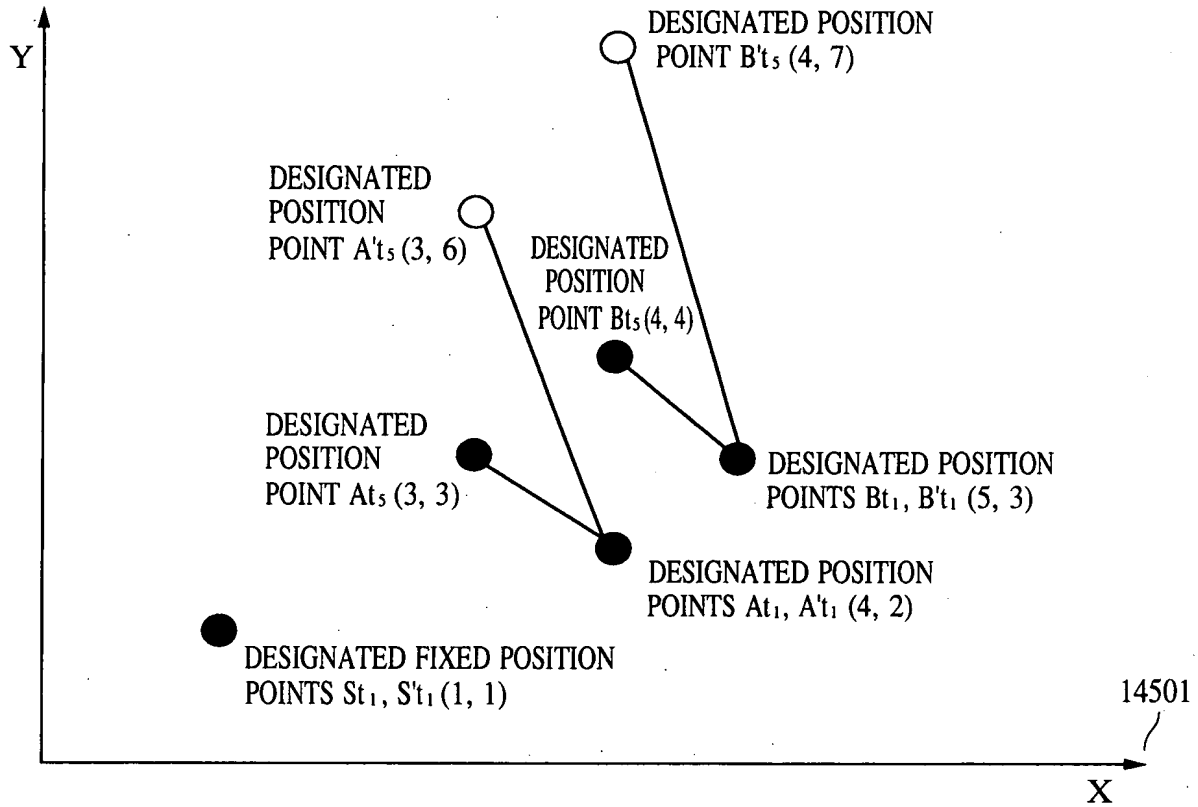


FIG. 145A

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	S <sub>x</sub>	S <sub>y</sub>
t <sub>1</sub>	1.0	1.0
t <sub>2</sub>	1.0	1.0
t <sub>3</sub>	1.0	1.0
t <sub>4</sub>	1.0	1.0
t <sub>5</sub>	1.0	1.0

DESIGNATED POSITION POSITION DATA OF POINT A	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	4.0	2.0
t <sub>2</sub>	3.8	2.2
t <sub>3</sub>	3.6	2.4
t <sub>4</sub>	3.4	2.6
t <sub>5</sub>	3.0	3.0

DESIGNATED POSITION POSITION DATA OF POINT B	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	5.0	3.0
t <sub>2</sub>	4.8	3.2
t <sub>3</sub>	4.6	3.4
t <sub>4</sub>	4.4	3.6
t <sub>5</sub>	4.0	4.0

DESIGNATED POSITION POSITION DATA OF POINT A'	A' <sub>x</sub>	A' <sub>y</sub>
t <sub>1</sub>	4.0	2.0
t <sub>2</sub>	3.8	2.8
t <sub>3</sub>	3.6	3.6
t <sub>4</sub>	3.4	4.4
t <sub>5</sub>	3.0	6.0

DESIGNATED POSITION POSITION DATA OF POINT B'	B' <sub>x</sub>	B' <sub>y</sub>
t <sub>1</sub>	5.0	3.0
t <sub>2</sub>	4.8	3.8
t <sub>3</sub>	4.6	4.6
t <sub>4</sub>	4.4	5.4
t <sub>5</sub>	4.0	7.0

14502

FIG. 145B FIG. 145C FIG. 145D FIG. 145E FIG. 145F

14503

DATA OF DISTANCE OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT S	TRAVEL OF POINT A	TRAVEL OF POINT B	TRAVEL OF POINT A'	TRAVEL OF POINT B'
t <sub>1</sub>	0	0.000	0.000	0.000	0.000
t <sub>2</sub>	0	0.283	0.283	0.825	0.825
t <sub>3</sub>	0	0.566	0.566	1.649	1.649
t <sub>4</sub>	0	0.849	0.849	2.474	2.474
t <sub>5</sub>	0	1.414	1.131	4.123	4.123

FIG. 145G

FIG. 146

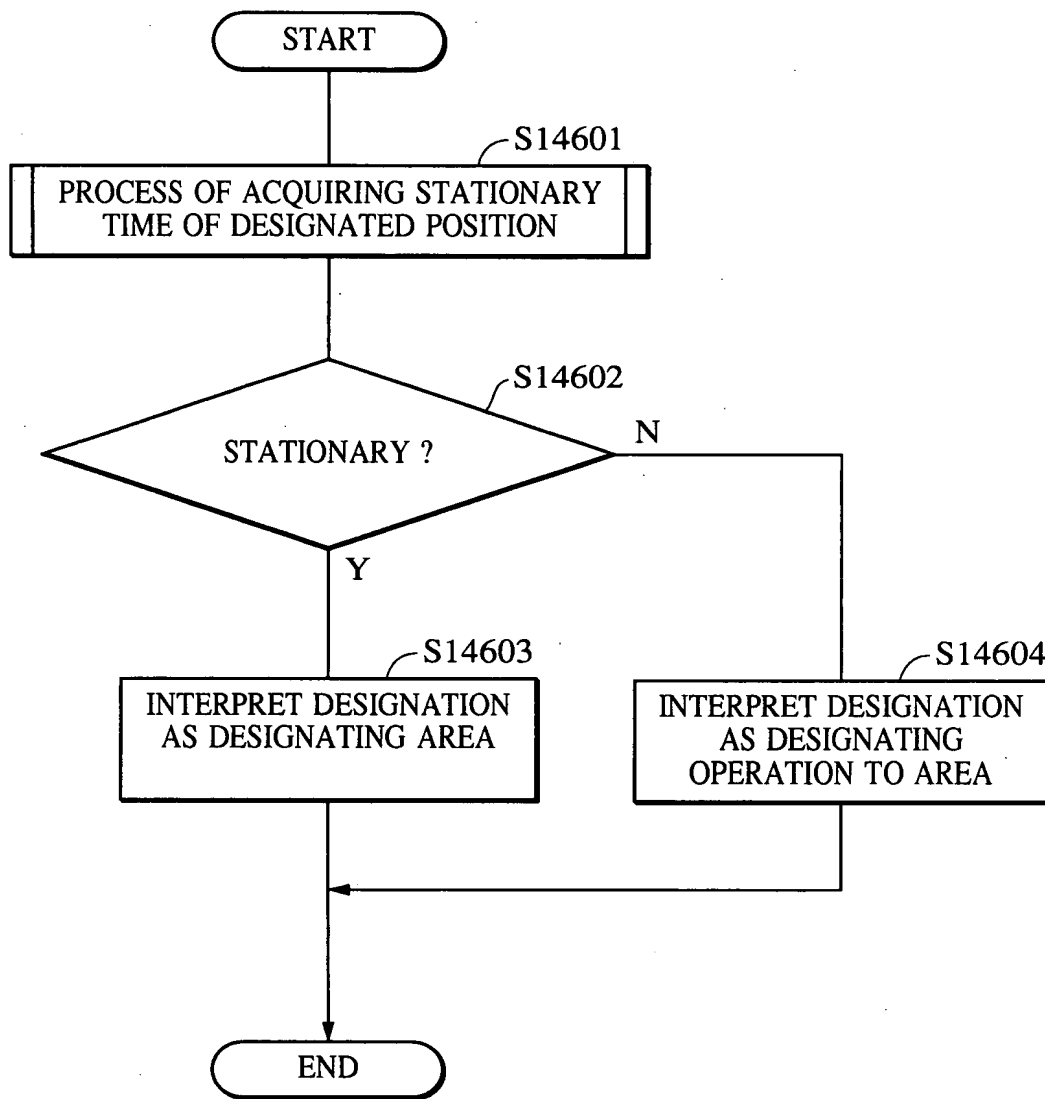


FIG. 146



DESIGNATING  
AREA

DESIGNATED  
POSITION  
POINT  $A_{t_1}$

DESIGNATED  
POSITION  
POINT  $B_{t_1}$

TIME  $t_1$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. The output is generated on the basis of the selected elements of the text and the determined describing order.

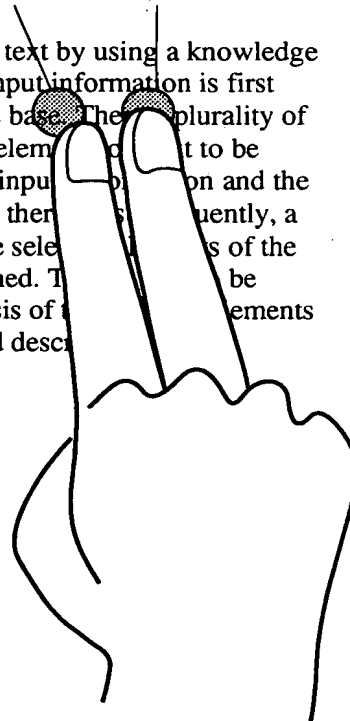


FIG. 147A

DESIGNATED  
POSITION  
POINT  $A_{t_5}$

DESIGNATED  
POSITION  
POINT  $B_{t_5}$

TIME  $t_5$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. The output is generated on the basis of the selected elements of the text and the determined describing order.

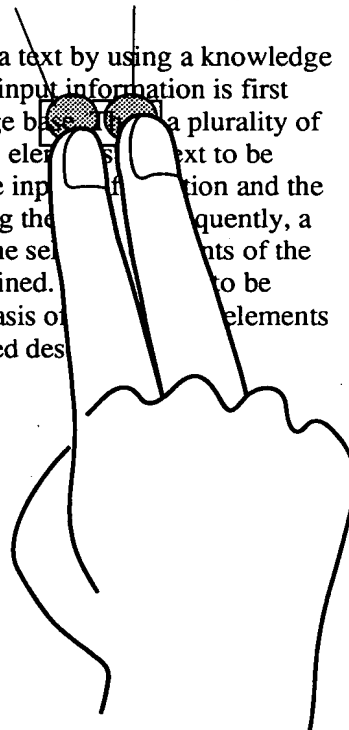


FIG. 147B

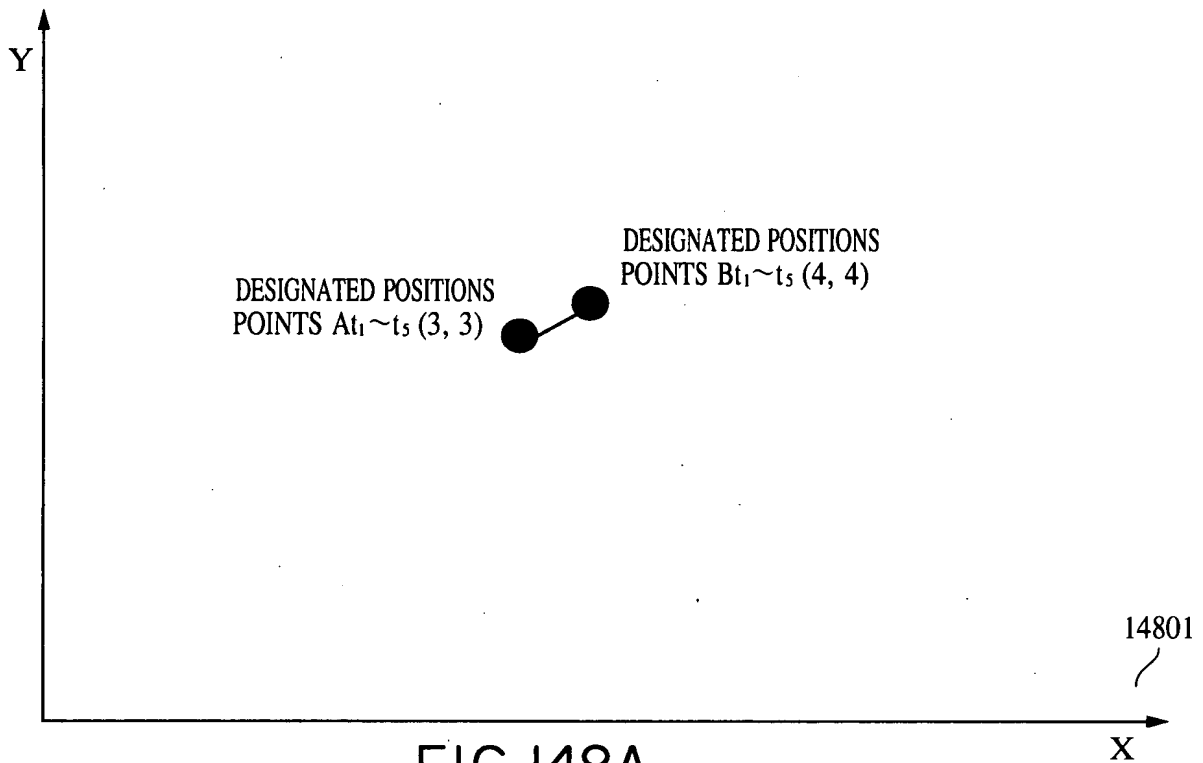


FIG. 148A

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT A

	$A_x$	$A_y$
$t_1$	3.0	3.0
$t_2$	3.0	3.0
$t_3$	3.0	3.0
$t_4$	3.0	3.0
$t_5$	3.0	3.0

FIG. 148B

DESIGNATED  
FIXED POSITION  
POSITION DATA  
OF POINT B

	$B_x$	$B_y$
$t_1$	4.0	4.0
$t_2$	4.0	4.0
$t_3$	4.0	4.0
$t_4$	4.0	4.0
$t_5$	4.0	4.0

FIG. 148C

DATA OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B
$t_1$	0.000	0.000
$t_2$	0.000	0.000
$t_3$	0.000	0.000
$t_4$	0.000	0.000
$t_5$	0.000	0.000

FIG. 148D

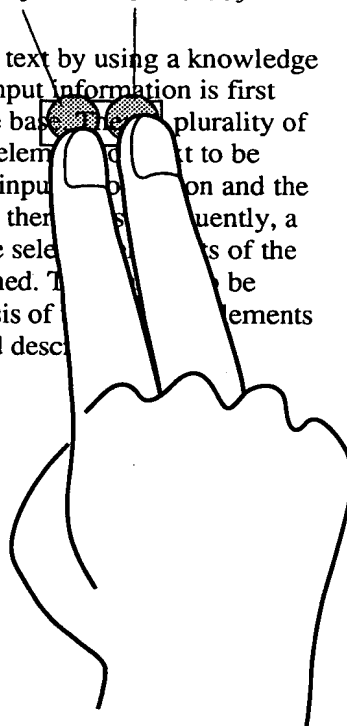
EXPANSION  
OPERATION

DESIGNATED  
POSITION  
POINT  $A_{t_5}$

DESIGNATED  
POSITION  
POINT  $B_{t_5}$

TIME  $t_5$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. A plurality of kinds of information used as elements to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, the output is generated on the basis of the selected elements of the text and the determined describing order.



14901

FIG. 149A

DESIGNATED POSITION  
POINT  $A_{t_6}$

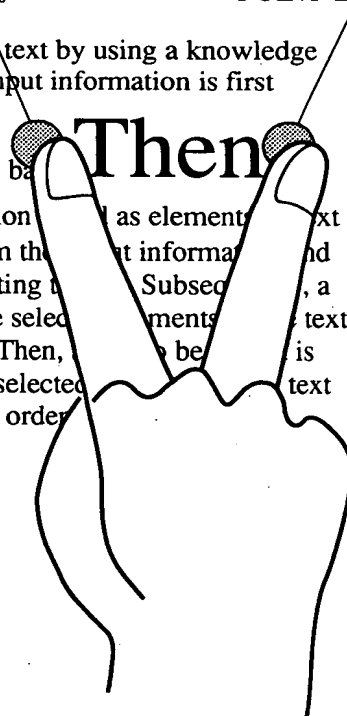
DESIGNATED POSITION  
POINT  $B_{t_6}$

TIME  $t_6$

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first

retrieved from the knowledge base. A plurality of kinds of information used as elements to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, the output is generated on the basis of the selected elements of the text and the determined describing order.

Then



14902

FIG. 149B

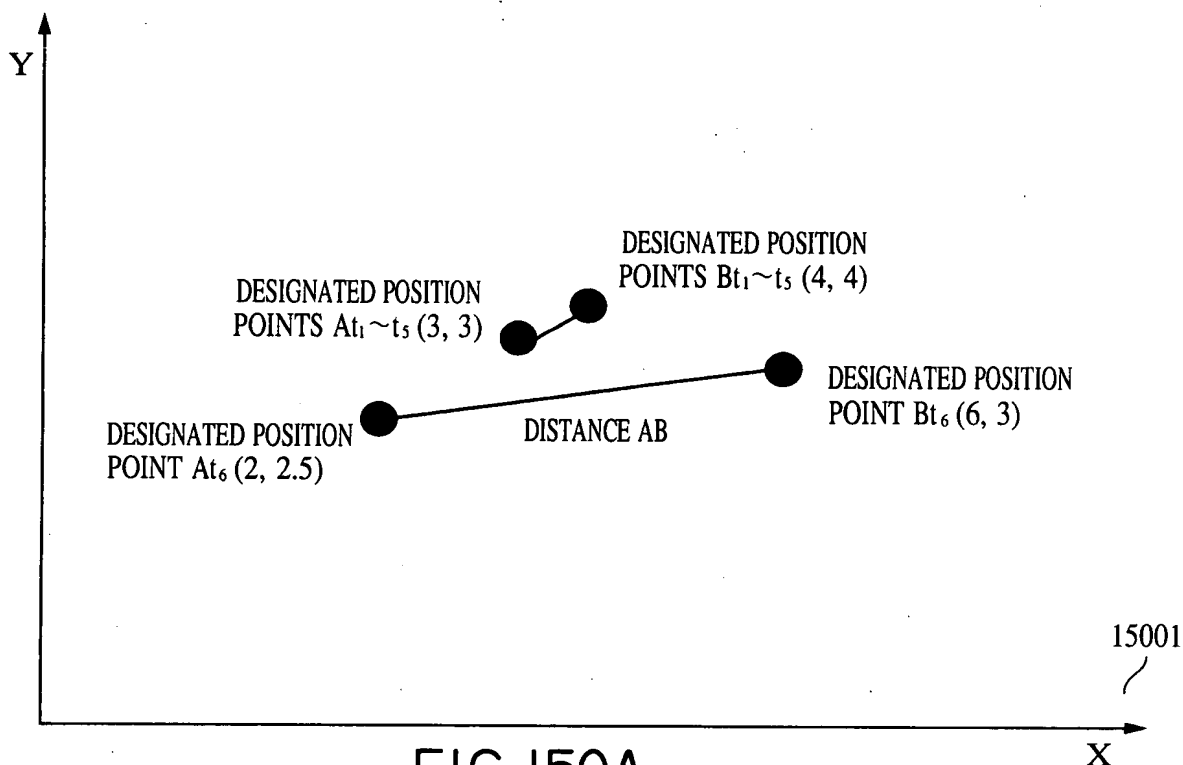


FIG. 150A

DESIGNATED  
MOVING POSITION  
POSITION DATA  
OF POINT A

	A <sub>x</sub>	A <sub>y</sub>
t <sub>1</sub>	3.0	3.0
t <sub>2</sub>	3.0	3.0
t <sub>3</sub>	3.0	3.0
t <sub>4</sub>	3.0	3.0
t <sub>5</sub>	2.0	2.5

FIG. 150B

DESIGNATED  
POSITION  
POSITION DATA  
OF POINT B

	B <sub>x</sub>	B <sub>y</sub>
t <sub>1</sub>	4.0	4.0
t <sub>2</sub>	4.0	4.0
t <sub>3</sub>	4.0	4.0
t <sub>4</sub>	4.0	4.0
t <sub>5</sub>	6.0	3.0

FIG. 150C

DATA OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B	DISTANCE AB	DISTANCE CHANGE RATE
t <sub>1</sub>	0.000	0.000	1.414	100%
t <sub>2</sub>	0.000	0.000	1.414	100%
t <sub>3</sub>	0.000	0.000	1.414	100%
t <sub>4</sub>	0.000	0.000	1.414	100%
t <sub>5</sub>	1.118	2.236	4.031	285%

FIG. 150D